

Alibaba Cloud

Alibaba Cloud Service Mesh API Reference

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Document conventions

Style	Description	Example
 Danger	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 Danger: Resetting will result in the loss of user configuration data.
 Warning	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 Warning: Restarting will cause business interruption. About 10 minutes are required to restart an instance.
 Notice	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: If the weight is set to 0, the server no longer receives new requests.
 Note	A note indicates supplemental instructions, best practices, tips, and other content.	 Note: You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click Settings > Network > Set network type .
Bold	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click OK .
Courier font	Courier font is used for commands	Run the <code>cd /d C:/window</code> command to enter the Windows system folder.
<i>Italic</i>	Italic formatting is used for parameters and variables.	<code>bae log list --instanceid</code> <i>Instance_ID</i>
[] or [a b]	This format is used for an optional value, where only one item can be selected.	<code>ipconfig [-all -t]</code>
{ } or {a b}	This format is used for a required value, where only one item can be selected.	<code>switch {active stand}</code>

Table of Contents

1. List of operations by function	08
2. Make API requests	12
3. Create an AccessKey pair	13
4. CLI	15
4.1. Install and use ASM CLI	15
5. ASM instance	18
5.1. CreateServiceMesh	18
5.2. DeleteServiceMesh	29
5.3. ModifyServiceMeshName	30
5.4. UpdateMeshFeature	31
5.5. DescribeServiceMeshes	43
5.6. DescribeServiceMeshDetail	50
5.7. DescribeServiceMeshKubeconfig	70
5.8. RevokeKubeconfig	72
5.9. DescribeServiceMeshAdditionalStatus	74
5.10. DescribeVersions	79
6. Mesh Management	81
6.1. DescribeNodesInstanceType	81
6.2. DescribeCCMVersion	82
6.3. ReActivateAudit	84
6.4. RunDiagnosis	86
6.5. GetCaCert	87
7. Permission management	89
7.1. GrantUserPermissions	89
7.2. DescribeUserPermissions	90
7.3. DescribeUsersWithPermissions	91

8.Mesh Resources	94
8.1. UpdateMeshCRAggregation	94
8.2. DescribeVSwitches	96
8.3. DescribeVpcs	98
8.4. DescribeCens	100
8.5. DescribeCrTemplates	101
8.6. DescribeEipResources	104
8.7. ModifyApiServerEipResource	106
9.Sidecar Management	109
9.1. DescribeServiceMeshProxyStatus	109
9.2. DescribeNamespaceScopeSidecarConfig	112
9.3. UpdateNamespaceScopeSidecarConfig	116
10.Cluster	120
10.1. DescribeServiceMeshClusters	120
10.2. DescribeClustersInServiceMesh	122
10.3. AddClusterIntoServiceMesh	125
10.4. RemoveClusterFromServiceMesh	126
10.5. DescribeGuestClusterPods	127
10.6. DescribeGuestClusterNamespaces	128
10.7. DescribeReusableSlb	130
10.8. GetRegisteredServiceEndpoints	131
10.9. GetRegisteredServiceNamespaces	134
11.ASM Gateway	136
11.1. CreateASMGateway	136
11.2. CreateIstioGatewayRoutes	137
11.3. CreateGatewaySecret	142
11.4. CreateIstioGatewayDomains	144
11.5. DeleteGatewayRoute	146

11.6. DeleteGatewaySecret	147
11.7. DeleteIstioGatewayDomains	149
11.8. UpdateASMGateway	150
11.9. UpdateASMGatewayImportedServices	152
11.10. UpdateIstioGatewayRoutes	153
11.11. UpdateIstioRouteAdditionalStatus	158
11.12. DescribeIngressGateways	160
11.13. DescribeImportedServicesDetail	161
11.14. DescribeASMGatewayImportedServices	164
11.15. DescribeIstioGatewayRouteDetail	165
11.16. DescribeGatewaySecretDetails	174
11.17. DescribeIstioGatewayDomains	176
11.18. DescribeIstioGatewayRoutes	178
12. Observability	181
12.1. DescribeClusterGrafana	181
12.2. DescribeClusterPrometheus	182
12.3. DescribeServiceMeshLogs	183
12.4. DescribeGuestClusterAccessLogDashboards	184
13. Update	187
13.1. UpgradeMeshVersion	187
13.2. UpgradeMeshEditionPartially	188
13.3. DescribeUpgradeVersion	189
13.4. DescribeServiceMeshUpgradeStatus	190
14. Virtual machine	194
14.1. AddVMIntoServiceMesh	194
14.2. RemoveVMFromServiceMesh	195
14.3. GetVmMeta	196
14.4. GetVmAppMeshInfo	198

14.5. DescribeServiceMeshVMs	199
14.6. DescribeVMsInServiceMesh	201

1. List of operations by function

The following tables list API operations available for use in Alibaba Cloud Service Mesh (ASM).

ASM instances

Operation	Description
CreateServiceMesh	Creates an ASM instance.
DeleteServiceMesh	Deletes an ASM instance.
ModifyServiceMeshName	Modifies the name of an ASM instance.
UpdateMeshFeature	Updates the configuration of an ASM instance.
DescribeServiceMeshes	Queries ASM instances.
DescribeServiceMeshDetail	Queries the details of an ASM instance.
DescribeServiceMeshKubeconfig	Queries the kubeconfig file of an ASM instance.
RevokeKubeconfig	Revokes the kubeconfig file of an ASM instance and generates a new kubeconfig file.
DescribeServiceMeshAdditionalStatus	Queries the check results of an ASM instance.
DescribeVersions	Queries available ASM versions when you create an ASM instance.

Mesh management

Operation	Description
DescribeNodesInstanceType	Queries the instance types of nodes on the data plane and whether the instance types support Multi-Buffer acceleration.
DescribeCCMVersion	Queries the versions of the Cloud Controller Manager (CCM) component.
ReActivateAudit	Recreates a project that is used to store audit logs.
RunDiagnosis	Diagnoses an ASM instance.
GetCaCert	Obtains a certificate issued by a certificate authority (CA).

Permission management

Operation	Description
GrantUserPermissions	Modifies the role-based access control (RBAC) role of a RAM user.
DescribeUserPermissions	Queries the RBAC role of a RAM user.
DescribeUsersWithPermissions	Queries the IDs of all RAM users or RAM roles to which an RBAC role is assigned.

Mesh resources

Operation	Description
DescribeVSwitches	Queries the vSwitches that are deployed in a specified virtual private cloud (VPC) in a region.
DescribeVpcs	Queries the VPCs in a specified region.
DescribeCens	Queries the Kubernetes clusters that are deployed in different VPCs and are not connected by using a Cloud Enterprise Network (CEN) instance among all the Kubernetes clusters that are added to an ASM instance.
DescribeCrTemplates	Queries the common YAML templates for a specified type of Istio resource in ASM.
DescribeEipResources	Queries elastic IP addresses (EIPs).
ModifyApiServerEipResource	Disassociates an EIP from an API server or associates an EIP with an API server.

Sidecar proxy management

Operation	Description
DescribeServiceMeshProxyStatus	Queries the status of proxies on the data plane of an ASM instance.
DescribeNamespaceScopeSidecarConfig	Queries the configurations of sidecar proxies at the namespace level.
UpdateNamespaceScopeSidecarConfig	Updates the configurations of sidecar proxies at the namespace level.

Clusters

Operation	Description
AddClusterIntoServiceMesh	Adds a cluster to an ASM instance.
RemoveClusterFromServiceMesh	Removes a cluster from an ASM instance.
DescribeClustersInServiceMesh	Queries the information about clusters in an ASM instance.
DescribeServiceMeshClusters	Queries the clusters that can be added to an ASM instance.
DescribeGuestClusterPods	Queries the pods in a specified namespace of a Kubernetes cluster that is added to an ASM instance.
DescribeGuestClusterNamespaces	Queries the namespaces of a Kubernetes cluster that is added to an ASM instance.
DescribeReusableSlb	Queries the Server Load Balancer (SLB) instances that can be reused.
GetRegisteredServiceEndpoints	Queries the endpoints of a registered service in an ASM instance.
GetRegisteredServiceNamespaces	Queries the namespaces of a registered service in an ASM instance.

ASM gateways

Operation	Description
CreateASMGateway	Creates an ASM gateway.
CreateIstioGatewayRoutes	Creates a routing rule for an ASM gateway.
CreateGatewaySecret	Creates a secret for an ASM gateway.
CreateIstioGatewayDomains	Adds one or more domain names for an ASM gateway.
DeleteGatewayRoute	Deletes a routing rule for an ASM gateway.
DeleteGatewaySecret	Deletes a secret for an ASM gateway.
DeleteIstioGatewayDomains	Deletes one or more domain names for an ASM gateway.
UpdateASMGateway	Updates an ASM gateway.
UpdateASMGatewayImportedServices	Updates imported services on an ASM gateway to import or delete upstream services associated with the gateway.
UpdateIstioGatewayRoutes	Updates a routing rule for an ASM gateway.
UpdateIstioRouteAdditionalStatus	Updates the information about a routing rule for an ASM gateway.
DescribeIngressGateways	Queries the information about the ingress gateways of an ASM instance.
DescribeImportedServicesDetail	Queries the details of the imported services on an ASM gateway.
DescribeASMGatewayImportedServices	Queries imported services on an ASM gateway.
DescribeIstioGatewayRouteDetail	Queries the detailed information about a routing rule of an ASM gateway.
DescribeGatewaySecretDetails	Queries the details of a secret for an ASM gateway.
DescribeIstioGatewayDomains	Queries the domain names that are exposed by an ASM gateway.
DescribeIstioGatewayRoutes	Queries the routing rules of an ASM gateway.

Observability

Operation	Description
DescribeClusterGrafana	Queries the information about the Grafana dashboards of a cluster in an ASM instance.
DescribeClusterPrometheus	Queries the public endpoint of the Prometheus service that is used to monitor a cluster in an ASM instance.
DescribeServiceMeshLogs	Queries the logs of an ASM instance.
DescribeGuestClusterAccessLogDashboards	Queries the access log reports of a cluster on the data plane.

Upgrades

Operation	Description
UpgradeMeshVersion	Updates the version of an ASM instance.
UpgradeMeshEditionPartially	Upgrades an ASM instance to Commercial Edition (Professional Edition).
DescribeUpgradeVersion	Queries the versions of components that can be updated in an ASM instance.
DescribeServiceMeshUpgradeStatus	Queries the upgrade details of an ASM instance and its ingress gateways.

VMs

Operation	Description
AddVMIntoServiceMesh	Adds a VM to an ASM instance.
RemoveVMFromServiceMesh	Removes a VM from an ASM instance.
GetVmMeta	Queries the metadata that is required to add a non-containerized application to an ASM instance.
GetVmAppMeshInfo	Queries the information about non-containerized applications in an ASM instance.
DescribeServiceMeshVMs	Queries the ECS instances that reside in the same VPC as an ASM instance.
DescribeVMsInServiceMesh	Queries the VMs that are added to an ASM instance.

2. Make API requests

This topic describes the syntax of making Alibaba Cloud Service Mesh (ASM) API requests and the responses. To make an ASM API request, you must send an HTTP GET request to the ASM endpoint and add the request parameters that correspond to the API operation being called. After you call the API operation, the system returns a response. The request and response are both encoded in UTF-8.

Request syntax

ASM API operations use the Remote Procedure Call (RPC) protocol. You can call ASM API operations by sending HTTP GET requests.

The following example shows the syntax of an ASM API request:

```
http://Endpoint/?Action=xx&Parameters
```

where:

- **Endpoint:** the endpoint of the ASM API, which is *servicemesh.aliyuncs.com*.
- **Action:** the action to be executed. For example, call the *DescribeServiceMeshDetail* operation to query the details of an ASM instance.
- **Version:** the version number of the API. Set the value to *2020-01-11*.
- **Parameters:** request parameters that are separated with ampersands (&).

Request parameters include both common request parameters and API operation-specific parameters. Common parameters include information such as the API version number and authentication information.

The following code provides an example on how to call the *DescribeServiceMeshDetail* operation to query the details of an ASM instance.

 **Note** The following code has been formatted to ease reading.

```
https://servicemesh.aliyuncs.com/?Action=DescribeServiceMeshDetail
&Format=xml
&Version=2020-01-11
&Signature=xxxx%xxxx%3D
&SignatureMethod=HMAC-SHA1
&SignatureNonce=15215528852396
&SignatureVersion=1.0
&AccessKeyId=key-test
&TimeStamp=2012-06-01T12:00:00Z
...
```

3. Create an AccessKey pair

This topic describes how to create an AccessKey pair for an Alibaba Cloud account or a RAM user. When you call the Alibaba Cloud Service Mesh (ASM) API, you must use the AccessKey pair to complete identity authentication.

Context

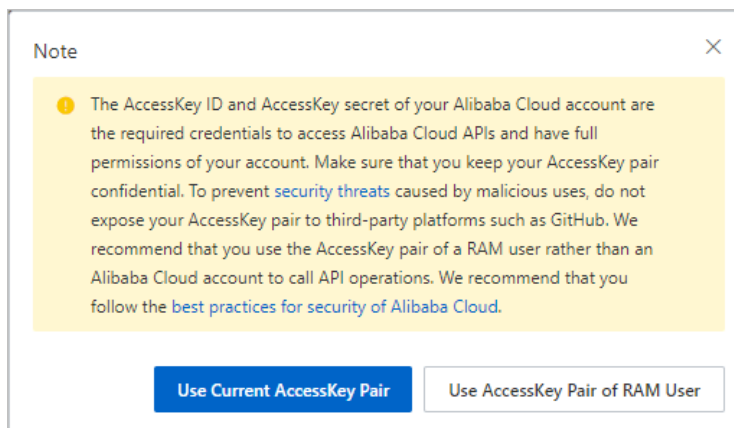
An AccessKey pair consists of an AccessKey ID and an AccessKey secret.

- The AccessKey ID is used to verify the identity of the user.
- The AccessKey secret is used to encrypt and verify the signature string. You must keep your AccessKey secret strictly confidential.

 **Warning** If the AccessKey pair of your Alibaba Cloud account is disclosed, your resources are exposed to potential risks. We recommend that you use a RAM user to call API operations. This minimizes the possibility of disclosing the AccessKey pair of your Alibaba Cloud account.

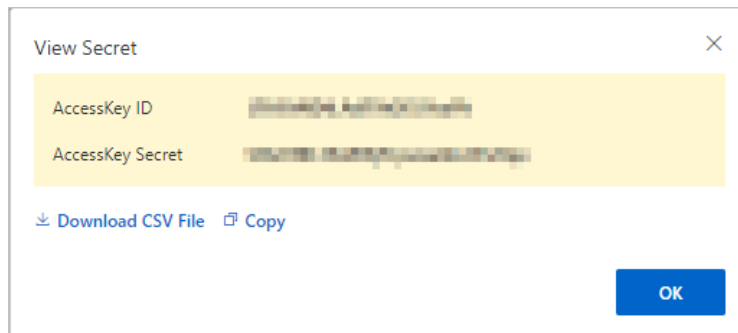
Procedure

1. Log on to the [Alibaba Cloud Management Console](#) by using your Alibaba Cloud account.
2. Move the pointer over the profile picture in the upper-right corner and click **AccessKey Management**.
3. In the **Note** dialog box, click **Use Current AccessKey Pair** or **Use AccessKey Pair of RAM User** as required.

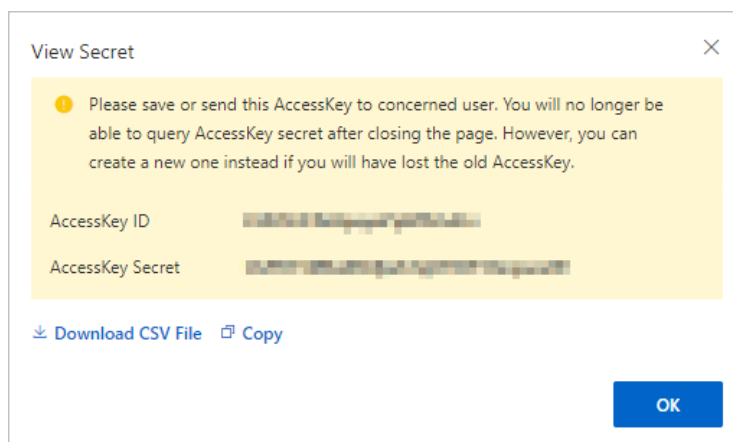


4. Obtain an AccessKey pair.
 - Obtain the AccessKey pair of your Alibaba Cloud account
 - a. In the Note dialog box, click **Use Current AccessKey Pair**.
 - b. On the **AccessKey Pair** page, click **Create AccessKey**.
 - c. In the **Safety Verification** dialog box, click **Verify now** to the right of **By phone verification**. Obtain and enter a verification code in the **Verification code** field and click **Submit**.

- d. In the **View Secret** dialog box, view the AccessKey ID and AccessKey secret. To download the AccessKey pair, click **Download CSV File**.



- o Obtain the AccessKey pair of a RAM user
 - a. In the Note dialog box, click **Use AccessKey Pair of RAM User**.
 - b. Go to the [RAM console](#). On the **Users** page, click **Create User** to create a RAM user. Skip this step if you want to obtain the AccessKey pair of an existing RAM user.
 - c. In the left-side navigation pane of the [RAM console](#), choose **Identities > Users**.
 - d. On the **Users** page, click the username of the RAM user for which you want to create an AccessKey pair. On the details page of the RAM user, click **Create AccessKey** in the **User AccessKeys** section on the **Authentication** tab.
 - e. In the **Safety Verification** dialog box, click **Verify now** to the right of **By phone verification**. Obtain and enter a verification code in the **Verification code** field and click **Submit**.
 - f. In the **View Secret** dialog box, view the AccessKey ID and AccessKey secret. To download the AccessKey pair, click **Download CSV File**. To copy the AccessKey pair, click **Copy**.



4. CLI

4.1. Install and use ASM CLI

ASM CLI is a command line tool. You can run the `aliyun servicemesh` command on ASM CLI to call all API operations that Alibaba Cloud Service Mesh (ASM) provides for external access.

Context

ASM CLI is integrated into [Alibaba Cloud Command Line Interface \(CLI\)](#). You can obtain the latest version of ASM CLI by downloading the unified [aliyun-cli release package](#).

Install and initialize ASM CLI

1. Install ASM CLI.

- i. Run the following command to download ASM CLI:

```
wget "https://github.com/aliyun/aliyun-cli/releases/download/v${VERSION}/aliyun-cli-linux-${VERSION}-amd64.tgz"
```

- ii. Run the following command to decompress the package of ASM CLI:

```
tar xzvf aliyun-cli-linux-${VERSION}-amd64.tgz
```

- iii. Run the following command to install ASM CLI:

```
sudo mv aliyun /usr/local/bin
```

2. Initialize ASM CLI.

- i. Run the following command to specify the AccessKey ID of your Alibaba Cloud account. Replace `{ACCESS_KEY_ID}` with the AccessKey ID of your Alibaba Cloud account.

```
Access Key Id []: {ACCESS_KEY_ID}
```

- ii. Run the following command to specify the AccessKey secret of your Alibaba Cloud account. Replace `{ACCESS_KEY_SECRET}` with the AccessKey secret of your Alibaba Cloud account.

```
Access Key Secret []: {ACCESS_KEY_SECRET}
```

- iii. Run the following command to specify the region where you use ASM CLI, for example, cn-beijing:

```
Default Region Id []: cn-beijing
```

Available regions

Region	Region ID	Endpoint
China (Hangzhou)	cn-hangzhou	https://servicemesh.aliyuncs.com
China (Beijing)	cn-beijing	
China (Shanghai)	cn-shanghai	
US (Silicon Valley)	us-west-1	
Singapore	ap-southeast-1	
China (Shenzhen)	cn-shenzhen	
China (Zhangjiakou)	cn-zhangjiakou	

- iv. Run the following command to specify the language that you want to use on ASM CLI:

```
Default Output Format [json]: json (Only support json)
Default Language [zh|en] en: en
```

Use ASM CLI

For information about all API operations of ASM, see [List of operations by function](#). In the following example, the

`DescribeServiceMeshDetail` operation is called to demonstrate how to use ASM CLI. The

`DescribeServiceMeshDetail` operation is used to query the details of an ASM instance. In the following code, set the `ServiceMeshId` parameter to the ID of the ASM instance that you want to query.

```
aliyun servicemesh DescribeServiceMeshDetail --ServiceMeshId c9e8589cc0afa430c80bc1541b6d6xxxx
```



```

{
  "RequestId": "fac9c43c-0f78-45a9-b212-b48c9c4fxxxx",
  "ServiceMesh": {
    "Clusters": [
      "c4d810b9cc91e4170958c674419c2xxxx"
    ],
    "Endpoints": {
      "IntranetApiServerEndpoint": "https://192.168.0.xxx:6443",
      "IntranetPilotEndpoint": "192.168.0.xxx:15012",
      "PublicApiServerEndpoint": "https://39.105.207.xxx:6443",
      "PublicPilotEndpoint": "39.105.121.xxx:15012"
    },
    "ServiceMeshInfo": {
      "CreationTime": "2020-08-03T15:39:45+08:00",
      "ErrorMessage": "",
      "Name": "bj",
      "RegionId": "cn-beijing",
      "ServiceMeshId": "c9e8589cc0afa430c80bc1541b6d6xxxx",
      "State": "running",
      "UpdateTime": "2020-09-08T14:20:33+08:00",
      "Version": "v1.6.8.0-g36ddadd7-aliyun"
    },
    "Spec": {
      "LoadBalancer": {
        "ApiServerLoadbalancerId": "lb-2ze3ng35hedvvsnfkxxxx",
        "ApiServerPublicEip": true,
        "PilotPublicEip": true,
        "PilotPublicLoadbalancerId": "lb-2zenjnpcwgm99ecr0xxxx"
      },
      "MeshConfig": {
        "Audit": {
          "Enabled": true,
          "Project": "mesh-log-c9e8589cc0afa430c80bc1541b6d6xxxx"
        },
        "CustomizedZipkin": false,
        "EnableLocalityLB": false,
        "IncludeIPRanges": "*",
        "OPA": {
          "Enabled": false
        },
        "OutboundTrafficPolicy": "ALLOW_ANY",
        "Pilot": {
          "TraceSampling": 100
        },
        "Telemetry": true,
        "Tracing": true
      },
      "Network": {
        "SecurityGroupId": "sg-2zegx3q19bmgefu0xxxx",
        "VSwitches": [
          "vsw-2zergbfy911jjxkiwxxxx"
        ],
        "VpcId": "vpc-2zebfarsa6f57itxfxxxx"
      }
    }
  }
}

```

5.ASM instance

5.1. CreateServiceMesh

Creates an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateServiceMesh	The operation that you want to perform. Set the value to CreateServiceMesh.
RegionId	String	Yes	cn-hangzhou	The ID of the region in which the ASM instance to be created resides.
IstioVersion	String	No	v1.5.4.1-g5960ec40-aliyun	The Istio version of the ASM instance.
VpcId	String	Yes	vpc-xzelac2tw4ic7wz31****	The ID of the virtual private cloud (VPC).
ApiServerPublicEip	Boolean	No	false	Specifies whether to expose the API server to the Internet. Valid values: <code>true</code>: exposes the API server to the Internet. <code>false</code>: does not expose the API server to the Internet. Default value: false.  Note If you do not set this parameter, the API server of the clusters for the ASM instance cannot be accessed from the Internet.

Parameter	Type	Required	Example	Description
Tracing	Boolean	No	false	Specifies whether to enable the tracing feature. To enable this feature, make sure that you have activated Tracing Analysis. Valid values: <code>true</code>: enables the tracing feature. <code>false</code>: disables the tracing feature. Default value: false.
Name	String	No	mesh1	The name of the ASM instance.
VSwitches	String	Yes	["vsw-xzegf5dndkbf4m6eg****"]	The ID of the vSwitch.
TraceSampling	Float	No	100	The sampling percentage of tracing.
CustomizedZipkin	Boolean	No	false	Specifies whether to export the tracing data of ASM to a custom Zipkin system. Valid values: <code>true</code>: exports the tracing data of ASM to a custom Zipkin system. <code>false</code>: does not export the tracing data of ASM to a custom Zipkin system. Default value: <code>false</code>.
LocalityLoadBalancing	Boolean	No	false	Specifies whether to route traffic to the nearest instance. Valid values: <code>true</code>: routes traffic to the nearest instance. <code>false</code>: does not route traffic to the nearest instance. Default value: <code>false</code>.
LocalityLBConf	String	No	null	The configurations for the access to the nearest instance.

Parameter	Type	Required	Example	Description
Telemetry	Boolean	No	false	Specifies whether to enable Prometheus monitoring. We recommend that you use Prometheus Service of Application Real-Time Monitoring Service (ARMS). Valid values: <code>true</code> : enables Prometheus monitoring. <code>false</code> : disables Prometheus monitoring. Default value: <code>false</code> .
OpenAgentPolicy	Boolean	No	false	Specifies whether to install the Open Policy Agent (OPA) plug-in. Valid values: <code>true</code> : installs the OPA plug-in. <code>false</code> : does not install the OPA plug-in. Default value: <code>false</code> .
OPALogLevel	String	No	info	The log level of OPA.
OPAResourceCPU	String	No	1	The number of CPU cores that are requested by OPA. You can represent the parameter value in the standard representation form of CPUs in Kubernetes. For example, a value of 1 represents one CPU core.
OPAResourceMemory	String	No	512Mi	The size of the memory that is requested by OPA. You can represent the parameter value in the standard representation form of memory in Kubernetes. For example, a value of 1Mi represents a memory size of 1,024 KB.
OPALimitCPU	String	No	2	The maximum number of CPU cores that are available for OPA.
OPALimitMemory	String	No	1024Mi	The maximum size of the memory that is available for OPA. You can represent the parameter value in the standard representation form of memory in Kubernetes. For example, a value of 1Mi represents a memory size of 1,024 KB.

Parameter	Type	Required	Example	Description
EnableAudit	Boolean	No	false	Specifies whether to enable the mesh audit feature. To enable this feature, make sure that you have activated Log Service. Valid values: <code>true</code>: enables the mesh audit feature. <code>false</code>: disables the mesh audit feature. Default value: <code>false</code>.
AuditProject	String	No	mesh-log-xxxx	The name of the Log Service project that is used for mesh audit. Default value: mesh-log-{ASM instance ID}.
ProxyRequestCPU	String	No	100m	The number of CPU cores that are requested by the proxy container.
ProxyRequestMemory	String	No	128Mi	The size of the memory that is requested by the proxy container.
ProxyLimitCPU	String	No	2000m	The maximum number of CPU cores that are available for the proxy container.
ProxyLimitMemory	String	No	1024Mi	The maximum size of the memory that is available for the proxy container.
IncludeIPRanges	String	No	*	The IP addresses that are denied to access external services.
ExcludeIPRanges	String	No	100.100.10*.***	The IP addresses that are allowed to access external services.
ExcludeOutboundPorts	String	No	80,81	The outbound ports. Separate multiple port numbers with commas (,).
ExcludeInboundPorts	String	No	80,81	The inbound ports. Separate multiple port numbers with commas (,).
OpaEnabled	Boolean	No	false	Specifies whether to enable the OPA plug-in. Valid values: <code>true</code>: enables the OPA plug-in. <code>false</code>: disables the OPA plug-in. Default value: <code>false</code>.

Parameter	Type	Required	Example	Description
KialiEnabled	Boolean	No	false	Specifies whether to enable Kiali. To enable Kiali, make sure that Prometheus monitoring is enabled. If Prometheus monitoring is disabled, the value of this parameter must be false. Valid values: <code>true</code> : enables Kiali. <code>false</code> : disables Kiali. Default value: <code>false</code> .
AccessLogEnabled	Boolean	No	false	Specifies whether to enable access log collection. Valid values: <code>true</code> : enables access log collection. <code>false</code> : disables access log collection. Default value: <code>false</code> .
CustomizedPrometheus	Boolean	No	false	Specifies whether to use a custom Prometheus instance. Valid values: <code>true</code> : uses a custom Prometheus instance. <code>false</code> : does not use a custom Prometheus instance. Default value: <code>false</code> .
PrometheusUrl	String	No	http://prometheus:9090	The endpoint of the custom Prometheus instance.
RedisFilterEnabled	Boolean	No	true	Specifies whether to enable Redis Filter. Valid values: <code>true</code> : enables Redis Filter. <code>false</code> : disables Redis Filter. Default value: <code>false</code> .
MySQLFilterEnabled	Boolean	No	false	Specifies whether to enable MySQL Filter. Valid values: <code>true</code> : enables MySQL Filter. <code>false</code> : disables MySQL Filter. Default value: <code>false</code> .
ThriftFilterEnabled	Boolean	No	false	Specifies whether to enable Thrift Filter. Valid values: <code>true</code> : enables Thrift Filter. <code>false</code> : disables Thrift Filter. Default value: <code>false</code> .

Parameter	Type	Required	Example	Description
WebAssemblyFilterEnabled	Boolean	No	false	Specifies whether to enable WebAssembly Filter. Valid values: <code>true</code>: enables WebAssembly Filter. <code>false</code>: disables WebAssembly Filter. Default value: <code>false</code> .
MSEEnabled	Boolean	No	false	Specifies whether to enable Microservice Engine (MSE). Valid values: <code>true</code>: enables MSE. <code>false</code>: disables MSE. Default value: <code>false</code> .
DNSProxyingEnabled	Boolean	No	false	Specifies whether to enable the DNS proxy feature. <code>true</code>: enables the DNS proxy feature. <code>false</code>: disables the DNS proxy feature. Default value: <code>false</code> .
Edition	String	No	Pro	The edition of the ASM instance.
ConfigSourceEnabled	Boolean	No	false	Specifies whether to enable service registry. Valid values: <code>true</code>: enables service registry. <code>false</code>: disables service registry. Default value: <code>false</code> .
ConfigSourceNacosID	String	No	mse-cn-tl326*****	The instance ID of the Nacos registry.
DubboFilterEnabled	Boolean	No	false	Specifies whether to enable Dubbo Filter. Valid values: <code>true</code>: enables Dubbo Filter. <code>false</code>: disables Dubbo Filter. Default value: <code>false</code> .
FilterGatewayClusterConfig	Boolean	No	false	Specifies whether to enable gateway configuration filtering. Valid values: <code>true</code>: enables gateway configuration filtering. <code>false</code>: disables gateway configuration filtering. Default value: <code>false</code> .

Parameter	Type	Required	Example	Description
EnableSDSServer	Boolean	No	false	Specifies whether to enable Secret Discovery Service (SDS). Valid values: <code>true</code> : enables SDS. <code>false</code> : disables SDS. Default value: <code>false</code> .
AccessLogServiceEnabled	Boolean	No	false	Specifies whether to enable gRPC Access Log Service (ALS) for Envoy. Valid values: <code>true</code> : enables gRPC ALS. <code>false</code> : disables gRPC ALS. Default value: <code>false</code> .
AccessLogServiceHost	String	No	0.0.0.0	The endpoint of gRPC ALS for Envoy.
AccessLogServicePort	Integer	No	9999	The port of gRPC ALS for Envoy.
GatewayAPIEnabled	Boolean	No	false	Specifies whether to enable Gateway API. Valid values: <code>true</code> : enables Gateway API. <code>false</code> : disables Gateway API. Default value: <code>false</code> .
ControlPlaneLogEnabled	Boolean	No	false	Specifies whether to enable the collection of control plane logs. Valid values: <code>true</code> : enables the collection of control plane logs. <code>false</code> : disables the collection of control plane logs. Default value: <code>false</code> .
ControlPlaneLogProject	String	No	mesh-log-cf245a429b6ff4b6e97f20797758*****	The name of the Log Service project that is used to collect the logs of the control plane.

Parameter	Type	Required	Example	Description
AccessLogFormat	String	No	null	The custom format of access logs. To set this parameter, you must enable access log collection. Otherwise, you cannot set this parameter. The value must be a JSON string and contain the following key values: authority_for, bytes_received, bytes_sent, downstream_local_address, downstream_remote_address, duration, istio_policy_status, method, path, protocol, requested_server_name, response_code, response_flags, route_name, start_time, trace_id, upstream_cluster, upstream_host, upstream_local_address, upstream_service_time, upstream_transport_failure_reason, user_agent, and x_forwarded_for.
AccessLogFile	String	No	/dev/stdout	Specifies whether to enable access logging. Valid values: "": disables access logging. /dev/stdout : enables access logging. /dev/stdout indicates the file address of access logs.
AccessLogProject	String	No	mesh-log-cf245a429b6ff4b6e97f20797758*****	The name of the Log Service project that is used to collect access logs.
EnableCRHistory	Boolean	No	false	Specifies whether to enable the rollback feature for Istio resources. - true : enables the rollback feature for Istio resources. - false : disables the rollback feature for Istio resources. Default value: false .
CRAggregationEnabled	Boolean	No	false	Specifies whether to use the Kubernetes API of clusters on the data plane to access Istio resources. The version of the ASM instance must be V1.9.7.93 or later. - true : uses the Kubernetes API of clusters on the data plane to access Istio resources. - false : does not use the Kubernetes API of clusters on the data plane to access Istio resources. Default value: false .

Parameter	Type	Required	Example	Description
GlobalRateLimitEnabled	Boolean	No	false	Specifies whether to enable Application High Availability Service (AHAS)-based throttling. Valid values: <code>true</code>: enables AHAS-based throttling. <code>false</code>: disables AHAS-based throttling. Default value: <code>false</code> .
ApiServerLoadBalancerSpec	String	No	slb.s1.small	The instance type of the Server Load Balancer (SLB) instance bound to the API server. Valid values: slb.s1.small, slb.s2.small, slb.s2.medium, slb.s3.small, slb.s3.medium, and slb.s3.large.
PilotLoadBalancerSpec	String	No	slb.s1.small	The instance type of the pilot load balancer. Valid values: slb.s1.small, slb.s2.small, slb.s2.medium, slb.s3.small, slb.s3.medium, and slb.s3.large.
ChargeType	String	No	PostPaid	The billing method of the SLB instance. Valid values: <code>PayOnDemand</code>: pay-as-you-go <code>PrePaid</code>: subscription
Period	Integer	No	3	The subscription period of the SLB instance. Unit: month. This parameter is valid only if the ChargeType parameter is set to PrePay. For example, if the subscription period is one year, set this parameter to 12.
AutoRenew	Boolean	No	true	Specifies whether to enable auto-renewal for the SLB instance if the SLB instance uses the subscription billing method. Valid values: <code>true</code>: enables auto-renewal. <code>false</code>: disables auto-renewal.
AutoRenewPeriod	Integer	No	3	The auto-renewal period of the SLB instance. This parameter is valid only if the ChargeType parameter is set to PrePay. If the subscription period of the SLB instance is less than one year, the value of this parameter indicates the number of months for auto-renewal. If the subscription period of the SLB instance is more than one year, the value of this parameter indicates the number of years for auto-renewal.

Parameter	Type	Required	Example	Description
ClusterSpec	String	No	standard	The edition of the ASM instance. Valid values: <code>standard</code> : Standard Edition <code>enterprise</code> : Enterprise Edition <code>ultimate</code> : Ultimate Edition
MultiBufferEnabled	Boolean	No	true	Specifies whether to enable MultiBuffer-based Transport Layer Security (TLS) acceleration. Valid values: <code>true</code> : enables MultiBuffer-based TLS acceleration. <code>false</code> : disables MultiBuffer-based TLS acceleration. Default value: <code>true</code> .
MultiBufferPollDelay	String	No	30s	The pull-request latency Default value: 30. Unit: seconds.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.
ServiceMeshId	String	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.

Examples

Sample requests

```

http(s)://[Endpoint]/?Action=CreateServiceMesh
&RegionId=cn-hangzhou
&IstioVersion=v1.5.4.1-g5960ec40-aliyun
&VpcId=vpc-xzelac2tw4ic7wz31****
&ApiServerPublicEip=false
&Tracing=false
&Name=mesh1
&VSwitches=["vsw-xzegf5dndkbf4m6eg****"]
&TraceSampling=100.0
&CustomizedZipkin=false
&LocalityLoadBalancing=false
&LocalityLBConf={"failover":[{"from":"cn-hangzhou","to":"cn-shanghai"}]}
&Telemetry=false
&OpenAgentPolicy=false
&OPALogLevel=info
&OPAResourceCPU=1
&OPAResourceMemory=512Mi
&OPALimitCPU=2
&OPALimitMemory=1024Mi
&EnableAudit=false
&AuditProject=mesh-logs-xxxx

```

```
&AuditProject=mesh-log-xxxx
&ProxyRequestCPU=100m
&ProxyRequestMemory=128Mi
&ProxyLimitCPU=2000m
&ProxyLimitMemory=1024Mi
&IncludeIPRanges=*
&ExcludeIPRanges=100.100.100.100
&ExcludeOutboundPorts=80,81
&ExcludeInboundPorts=80,81
&OpaEnabled=false
&KialiEnabled=false
&AccessLogEnabled=false
&CustomizedPrometheus=false
&PrometheusUrl=http://prometheus:9090
&RedisFilterEnabled=true
&MysqlFilterEnabled=false
&ThriftFilterEnabled=false
&WebAssemblyFilterEnabled=false
&MSEEnabled=false
&DNSProxyingEnabled=false
&Edition=Pro
&ConfigSourceEnabled=false
&ConfigSourceNacosID=mse-cn-tl326*****
&DubboFilterEnabled=false
&FilterGatewayClusterConfig=false
&EnableSDSServer=false
&AccessLogServiceEnabled=false
&AccessLogServiceHost=0.0.0.0
&AccessLogServicePort=9999
&GatewayAPIEnabled=false
&ControlPlaneLogEnabled=false
&ControlPlaneLogProject=mesh-log-cf245a429b6ff4b6e97f20797758*****
&AccessLogFormat={"authority_for":"%REQ(:AUTHORITY)%", "bytes_received":"%BYTES_RECEIVED%", "bytes_sent":
"%BYTES_SENT%", "downstream_local_address":"%DOWNSTREAM_LOCAL_ADDRESS%", "downstream_remote_address":"%
DOWNSTREAM_REMOTE_ADDRESS%", "duration":"%DURATION%", "istio_policy_status":"%DYNAMIC_METADATA(istio.mixer:status)%", "method":"%REQ(:METHOD)%", "path":"%REQ(X-ENVOY-ORIGINAL-PATH?:PATH)%", "protocol":"%PROTOCOL%", "request_id":"%REQ(X-REQUEST-ID)%", "requested_server_name":"%REQUESTED_SERVER_NAME%", "response_code":"%RESPONSE_CODE%", "response_flags":"%RESPONSE_FLAGS%", "route_name":"%ROUTE_NAME%", "start_time":"%START_TIME%", "trace_id":"%REQ(X-B3-TRACEID)%", "upstream_cluster":"%UPSTREAM_CLUSTER%", "upstream_host":"%UPSTREAM_HOST%", "upstream_local_address":"%UPSTREAM_LOCAL_ADDRESS%", "upstream_service_time":"%RESP(X-ENVOY-UPSTREAM-SERVICE-TIME)%", "upstream_transport_failure_reason":"%UPSTREAM_TRANSPORT_FAILURE_REASON%", "user_agent":"%REQ(USER-AGENT)%", "x_forwarded_for":"%REQ(X-FORWARDED-FOR)%"}
&AccessLogFile=/dev/stdout
&AccessLogProject=mesh-log-cf245a429b6ff4b6e97f20797758*****
&EnableCRHistory=false
&CRAggregationEnabled=false
&<Common request parameters>
```

Sample success responses

XML **format**

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateServiceMeshResponse>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
  <ServiceMeshId>c08ba3fd1e6484b0f8cc1ad8fe10d****</ServiceMeshId>
</CreateServiceMeshResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****",
  "ServiceMeshId" : "c08ba3fd1e6484b0f8cc1ad8fe10d****"
}
```

Error codes

HttpCode	Error code	Error message	Description
404	ERR404	Not found	The error message returned because the requested resource does not exist.

For a list of error codes, visit the [API Error Center](#).

5.2. DeleteServiceMesh

Deletes an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
Force	Boolean	No	false	Specifies whether to forcibly delete the ASM instance. Valid values: true and false. Default value: false.

Response parameters

Parameter	Type	Example	Description
RequestId	String	11fd0027-c27e-41bb-a565-75583054****	

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DeleteServiceMesh
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>11fd0027-c27e-41bb-a565-75583054****</RequestId>
```

JSON format

```
{
  "RequestId": "11fd0027-c27e-41bb-a565-75583054****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

5.3. ModifyServiceMeshName

Modifies the name of an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyServiceMeshName	The operation that you want to perform. Set the value to ModifyServiceMeshName .
ServiceMeshId	String	Yes	cdd30a90a7cea480ebcc7ff****	The ID of the ASM instance.
Name	String	Yes	test-mesh	The new name of the ASM instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	EDDC0D86-2FC3-56FB-9213-96EB0A3523F1	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ModifyServiceMeshName
&ServiceMeshId=cdd30a90a7cea480ebcc7ff****
&Name=test-mesh
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ModifyServiceMeshNameResponse>
  <RequestId>EDDC0D86-2FC3-56FB-9213-96EB0A3523F1</RequestId>
</ModifyServiceMeshNameResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "EDDC0D86-2FC3-56FB-9213-96EB0A3523F1"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

5.4. UpdateMeshFeature

Updates the configurations of an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateMeshFeature	The operation that you want to perform. Set the value to UpdateMeshFeature .
ServiceMeshId	String	Yes	cb8963379255149cb98c8686f274x****	The ID of the ASM instance.
Tracing	Boolean	No	false	Specifies whether to enable the tracing feature. To enable this feature, make sure that you have activated Tracing Analysis . Valid values: <code>true</code> : enables the tracing feature. <code>false</code> : disables the tracing feature. Default value: <code>false</code>
TraceSampling	Float	No	100	The sampling percentage of tracing.

Parameter	Type	Required	Example	Description
LocalityLoadBalancing	Boolean	No	true	Specifies whether cross-region load balancing is enabled. Valid values: <code>true</code>: enables cross-region load balancing. <code>false</code>: disables cross-region load balancing. Default value: <code>false</code>
LocalityLBConf	String	No	null	The configurations of cross-region load balancing. Valid values: <code>failover</code>: the configurations of cross-region failover. Example: <pre>failover: [// The struct that indicates the configurations of cross-region failover. { // If a service fails in the China (Beijing) region, the traffic is redirected to the same service in the China (Hangzhou) region. from: "cn-beijing", to: "cn-hangzhou", }]</pre> <code>distribute</code>: the configurations of cross-region traffic distribution. Example: <pre>distribute: [// The struct that indicates the configurations of cross-region traffic distribution. { // For traffic that is routed to the China (Beijing) region, 70% of the traffic is allocated to the China (Beijing) region and the rest of the traffic is redirected to the China (Hangzhou) region. "from": "cn-beijing", "to": { "cn-beijing": 70, "cn-hangzhou": 30, } }]</pre>

Parameter	Type	Required	Example	Description
Telemetry	Boolean	No	false	Specifies whether to enable Prometheus monitoring. We recommend that you use Prometheus Service of Application Real-Time Monitoring Service (ARMS). Valid values: <code>true</code>: enables Prometheus monitoring. <code>false</code>: disables Prometheus monitoring. Default value: <code>false</code>
OpenAgentPolicy	Boolean	No	false	Specifies whether to install the Open Policy Agent (OPA) plug-in. Valid values: <code>true</code>: installs the OPA plug-in. <code>false</code>: does not install the OPA plug-in. Default value: <code>false</code>
OPALogLevel	String	No	info	The log level of OPA. <code>info</code>: logs all information. <code>debug</code>: logs debugging and error information. <code>error</code>: logs only error information.
OPAResourceCPU	String	No	1	The number of CPU cores that are requested by OPA.
OPAResourceMemory	String	No	512Mi	The size of the memory that is requested by OPA.
OPALimitCPU	String	No	2	The maximum number of CPU cores that are available to OPA.
OPALimitMemory	String	No	1024Mi	The maximum size of the memory that is available to OPA.
EnableAudit	Boolean	No	false	Specifies whether to enable the mesh audit feature. To enable this feature, make sure that you have activated Log Service. Valid values: <code>true</code>: enables the mesh audit feature. <code>false</code>: disables the mesh audit feature. Default value: <code>false</code>

Parameter	Type	Required	Example	Description
AuditProject	String	No	mesh-log-c08ba3fd1e64xxb0f8cc1ad8****	The name of the Log Service project that is used for mesh audit. Default value: <code>mesh-log-{meshId}</code>
CustomizedZipkin	Boolean	No	false	Specifies whether to enable custom Zipkin system. Valid values: <code>true</code>: enables custom Zipkin system. <code>false</code>: disables custom Zipkin system. Default value: <code>false</code>
OutboundTrafficPolicy	String	No	ALLOW_ANY	The policy of handling outbound traffic. Valid values: <code>ALLOW_ANY</code>: allows outbound traffic to external services. <code>REGISTRY_ONLY</code>: allows outbound traffic to only external services defined in the service registry of the ASM instance.
ProxyRequestCPU	String	No	100m	The number of CPU cores that are requested.
ProxyRequestMemory	String	No	128Mi	The size of the memory that is requested.
ProxyLimitCPU	String	No	2000m	The maximum number of CPU cores.
ProxyLimitMemory	String	No	1024Mi	The maximum size of the memory.
IncludeIPRanges	String	No	*	The IP addresses that are denied to access external services.
ExcludeIPRanges	String	No	100.100.100.100	The IP addresses that are allowed to access external services.
ExcludeOutboundPorts	String	No	80,81	The outbound ports. Separate multiple port numbers with commas (,).
IncludeInboundPorts	String	No	80,81	The inbound ports that allow all inbound traffic to bypass the sidecar proxy.
ExcludeInboundPorts	String	No	80,81	The inbound ports. Separate multiple port numbers with commas (,).

Parameter	Type	Required	Example	Description
EnableNamespacesByDefault	Boolean	No	false	Specifies whether to enable automatic sidecar injection for all namespaces. Valid values: <code>true</code>: enables automatic sidecar injection for all namespaces. <code>false</code>: disables automatic sidecar injection for all namespaces. Default value: <code>false</code>
AutoInjectionPolicyEnabled	Boolean	No	false	Specifies whether automatic sidecar injection can be enabled by using annotations. Valid values: <code>true</code>: specifies that automatic sidecar injection can be enabled by using annotations. <code>false</code>: specifies that automatic sidecar injection cannot be enabled by using annotations. Default value: <code>false</code>
SidecarInjectorRequestCPU	String	No	1000m	The number of CPU cores that are requested by the sidecar injector pod.
SidecarInjectorRequestMemory	String	No	512Mi	The size of the memory that is requested by the sidecar injector pod.
SidecarInjectorLimitCPU	String	No	4000m	The maximum number of CPU cores that are available to the sidecar injector pod.
SidecarInjectorLimitMemory	String	No	2048Mi	The maximum size of the memory that is available to the sidecar injector pod.
SidecarInjectorWebhookAsYaml	String	No	null	Other configurations of automatic sidecar injection, in the YAML format.
CniEnabled	Boolean	No	false	Specifies whether to enable the Container Network Interface (CNI) plug-in. Valid values: <code>true</code>: enables the CNI plug-in. <code>false</code>: disables the CNI plug-in. Default value: <code>false</code>
CniExcludeNamespaces	String	No	kube-system	The namespaces to be excluded for the CNI plug-in.

Parameter	Type	Required	Example	Description
OpaEnabled	Boolean	No	false	Specifies whether to enable the OPA plug-in. Valid values: <code>true</code>: enables the OPA plug-in. <code>false</code>: disables the OPA plug-in. Default value: <code>false</code>
Http10Enabled	Boolean	No	false	Specifies whether to enable the support for HTTP 1.0. Valid values: <code>true</code>: enables the support for HTTP 1.0. <code>false</code>: disables the support for HTTP 1.0. Default value: <code>false</code>
KialiEnabled	Boolean	No	false	Specifies whether to enable Kiali. To enable this feature, make sure that you have enabled Prometheus monitoring. If Prometheus monitoring is disabled, the value of this parameter must be false. Valid values: <code>true</code>: enables Kiali. <code>false</code>: disables Kiali. Default value: <code>false</code>
CustomizedPrometheus	Boolean	No	false	Specifies whether to use a custom Prometheus instance. Valid values: <code>true</code>: uses a custom Prometheus instance. <code>false</code>: does not use a custom Prometheus instance. Default value: <code>false</code>
PrometheusUrl	String	No	http://prometheus:9090	The endpoint of Prometheus monitoring. If you use ARMS Prometheus, set this parameter to the endpoint of ARMS.
AccessLogEnabled	Boolean	No	false	Specifies whether to enable access log collection. Valid values: <code>true</code>: enables access log collection. <code>false</code>: disables access log collection. Default value: <code>false</code>

Parameter	Type	Required	Example	Description
MSEEnabled	Boolean	Yes	false	Specifies whether to enable Microservice Engine (MSE). Valid values: <code>true</code> : enables MSE. <code>false</code> : disables MSE. Default value: <code>false</code>
RedisFilterEnabled	Boolean	No	false	Specifies whether to enable Redis Filter. Valid values: <code>true</code> : enables Redis Filter. <code>false</code> : disables Redis Filter. Default value: <code>false</code>
MysqlFilterEnabled	Boolean	No	false	Specifies whether to enable MySQL Filter. Valid values: <code>true</code> : enables MySQL Filter. <code>false</code> : disables MySQL Filter. Default value: <code>false</code>
ThriftFilterEnabled	Boolean	No	false	Specifies whether to enable Thrift Filter. Valid values: <code>true</code> : enables Thrift Filter. <code>false</code> : disables Thrift Filter. Default value: <code>false</code>
WebAssemblyFilterEnabled	Boolean	No	false	Specifies whether to enable WebAssembly Filter. Valid values: <code>true</code> : enables WebAssembly Filter. <code>false</code> : disables WebAssembly Filter. Default value: <code>false</code>
DNSProxyingEnabled	Boolean	No	false	Specifies whether to enable DNS Proxying. Valid values: <code>true</code> : enables DNS Proxying. <code>false</code> : disables DNS Proxying. Default value: <code>false</code>
DubboFilterEnabled	Boolean	No	false	Specifies whether to enable Dubbo Filter. Valid values: <code>true</code> : enables Dubbo Filter. <code>false</code> : disables Dubbo Filter. Default value: <code>false</code>

Parameter	Type	Required	Example	Description
FilterGatewayClusterConfig	Boolean	No	false	Specifies whether to enable gateway configuration filtering. Valid values: <code>true</code>: enables Gateway configuration filtering. <code>false</code>: disables Gateway configuration filtering. Default value: <code>false</code>
EnableSDSServer	Boolean	No	false	Specifies whether to enable Secret Discovery Service (SDS). Valid values: <code>true</code>: enables SDS. <code>false</code>: disables SDS. Default value: <code>false</code>
AccessLogServiceEnabled	Boolean	No	false	Specifies whether to enable gRPC Access Log Service (ALS) for Envoy. Valid values: <code>true</code>: enables gRPC ALS. <code>false</code>: disables gRPC ALS. Default value: <code>false</code>
AccessLogServiceHost	String	No	0.0.0.0	The endpoint of gRPC ALS for Envoy.
AccessLogServicePort	Integer	No	9999	The port of gRPC ALS for Envoy.
GatewayAPIEnabled	Boolean	No	false	Specifies whether to enable Gateway API. Valid values: <code>true</code>: enables Gateway API. <code>false</code>: disables Gateway API. Default value: <code>false</code>
ConfigSourceEnabled	Boolean	No	false	Specifies whether to enable service registry. Valid values: <code>true</code>: enables service registry. <code>false</code>: disables service registry. Default value: <code>false</code>
ConfigSourceNacosID	String	No	mse-cn-tl326*****	The instance ID of the Nacos registry.

Parameter	Type	Required	Example	Description
AccessLogFormat	String	No	null	The custom format of access logs. To set this parameter, you must enable access log collection. Otherwise, you cannot set this parameter. The value must be a JSON string. The following key values must be contained: authority_for, bytes_received, bytes_sent, downstream_local_address, downstream_remote_address, duration, istio_policy_status, method, path, protocol, requested_server_name, response_code, response_flags, route_name, start_time, trace_id, upstream_cluster, upstream_host, upstream_local_address, upstream_service_time, upstream_transport_failure_reason, user_agent, and x_forwarded_for.
AccessLogFile	String	No	""	Specifies whether to enable access logging. Valid values: "" : disables access logging. /dev/stdout : enables access logging. /dev/stdout indicates the file address for the access log.
AccessLogProject	String	No	mesh-log-cf245a429b6ff4b6e97f20797758eefd4	The custom project on which the Log Service collects logs.
EnableCRHistory	Boolean	No	false	Specifies whether to enable the rollback feature for Istio resources.
CRAggregationEnabled	Boolean	No	false	Specifies whether to use the Kubernetes API of clusters on the data plane to access Istio resources. The version of the ASM instance must be V1.9.7.93 or later.
TerminationDrainDuration	String	No	5s	The maximum period of time that Istio Proxy waits for a request to end. For example, if you want to specify a period of 5 seconds, set this parameter to 5s.

Parameter	Type	Required	Example	Description
ProxyInitCPUResourceLimit	String	No	2000m	The maximum number of CPU cores that are available to the istio-init container.
ProxyInitMemoryResourceLimit	String	No	1024Mi	The maximum size of the memory that is available to the istio-init container.
ProxyInitCPUResourceRequest	String	No	10m	The number of CPU cores that are required by the istio-init container.
ProxyInitMemoryResourceRequest	String	No	10Mi	The size of the memory that is required by the istio-init container.
Lifecycle	String	No	null	The lifecycle of Istio Proxy.
MultiBufferEnabled	Boolean	No	false	Enables Transport Layer Security (TLS) acceleration based on MultiBuffer.
MultiBufferPollDelay	String	No	0.02s	The pull-request latency. By default, this parameter is left empty.
DiscoverySelectors	String	No	<pre>[{"matchExpressions": [{"key": "asm-discovery", "operator": "Exists"}]}</pre>	The label selectors used to specify the namespaces of the clusters on the data plane for selective service discovery.
GlobalRateLimitEnabled	Boolean	No	false	Specifies whether to enable the AHAS throttling feature. Valid values: <code>true</code> : enables the feature. <code>false</code> : disables the feature. Default value: <code>false</code>
ClusterSpec	String	No	standard	The edition of the ASM instance. Valid values: <code>standard</code> : Standard Edition <code>enterprise</code> : Enterprise Edition <code>ultimate</code> : Ultimate Edition
OPAScopeInjected	Boolean	No	false	Specifies whether to enable the feature of controlling the OPA injection scope. Valid values: <code>true</code> : enables the feature of controlling the OPA injection scope. <code>false</code> : disables the feature of controlling the OPA injection scope.

Parameter	Type	Required	Example	Description
OPAInjectorCPURequirement	String	No	80m	The minimum number of CPU cores requested by the pod to which OPA is injected. A value of 1000m indicates one CPU core.
OPAInjectorMemoryRequirement	String	No	50Mi	The minimum size of the memory requested by the pod to which OPA is injected. A value of 80Mi indicates 80 MB.
OPAInjectorCPULimit	String	No	1000m	The maximum number of CPU cores requested by the pod to which OPA is injected. A value of 1000m indicates one CPU core.
OPAInjectorMemoryLimit	String	No	1024Mi	The maximum size of the memory requested by the pod to which OPA is injected. A value of 1024Mi indicates 1,024 MB.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.

Examples

Sample requests

```

http(s)://[Endpoint]/?Action=UpdateMeshFeature
&ServiceMeshId=cb8963379255149cb98c8686f274x****
&Tracing=false
&TraceSampling=100.0
&LocalityLoadBalancing=true
&LocalityLBConf={"failover":[{"from":"cn-hangzhou","to":"cn-shanghai"}]}
&Telemetry=false
&OpenAgentPolicy=false
&OPALogLevel=info
&OPAResultCPU=1
&OPAResultMemory=512Mi
&OPALimitCPU=2
&OPALimitMemory=1024Mi
&EnableAudit=false
&AuditProject=mesh-log-c08ba3fd1e64xxb0f8cc1ad8****
&CustomizedZipkin=false
&OutboundTrafficPolicy=ALLOW_ANY
&ProxyRequestCPU=100m
&ProxyRequestMemory=128Mi
&ProxyLimitCPU=2000m
&ProxyLimitMemory=1024Mi
&IncludeIPRanges=*
&ExcludeIPRanges=100.100.100.100
&ExcludeOutboundPorts=80,81

```

```

&IncludeInboundPorts=80,81
&ExcludeInboundPorts=80,81
&EnableNamespacesByDefault=false
&AutoInjectionPolicyEnabled=false
&SidecarInjectorRequestCPU=1000m
&SidecarInjectorRequestMemory=512Mi
&SidecarInjectorLimitCPU=4000m
&SidecarInjectorLimitMemory=2048Mi
&SidecarInjectorWebhookAsYaml={"injectedAnnotations":{"test/istio-init":"runtime/default2","test/istio-proxy":"runtime/default"},"replicaCount":2,"nodeSelector":{"beta.kubernetes.io/os":"linux"}}
&CniEnabled=false
&CniExcludeNamespaces=kube-system
&OpaEnabled=false
&Http10Enabled=false
&KialiEnabled=false
&CustomizedPrometheus=false
&PrometheusUrl=http://prometheus:9090
&AccessLogEnabled=false
&MSEEnabled=false
&RedisFilterEnabled=false
&MysqlFilterEnabled=false
&ThriftFilterEnabled=false
&WebAssemblyFilterEnabled=false
&DNSProxyingEnabled=false
&DubboFilterEnabled=false
&FilterGatewayClusterConfig=false
&EnableSDSServer=false
&AccessLogServiceEnabled=false
&AccessLogServiceHost=0.0.0.0
&AccessLogServicePort=9999
&GatewayAPIEnabled=false
&ConfigSourceEnabled=false
&ConfigSourceNacosID=mse-cn-tl326*****
&AccessLogFormat={"authority_for":"%REQ(:AUTHORITY)%","bytes_received":"%BYTES_RECEIVED%","bytes_sent":"%BYTES_SENT%","downstream_local_address":"%DOWNSTREAM_LOCAL_ADDRESS%","downstream_remote_address":"%DOWNSTREAM_REMOTE_ADDRESS%","duration":"%DURATION%","istio_policy_status":"%DYNAMIC_METADATA(istio.mixer:status)%","method":"%REQ(:METHOD)%","path":"%REQ(X-ENVOY-ORIGINAL-PATH?:PATH)%","protocol":"%PROTOCOL%","request_id":"%REQ(X-REQUEST-ID)%","requested_server_name":"%REQUESTED_SERVER_NAME%","response_code":"%RESPONSE_CODE%","response_flags":"%RESPONSE_FLAGS%","route_name":"%ROUTE_NAME%","start_time":"%START_TIME%","trace_id":"%REQ(X-B3-TRACEID)%","upstream_cluster":"%UPSTREAM_CLUSTER%","upstream_host":"%UPSTREAM_HOST%","upstream_local_address":"%UPSTREAM_LOCAL_ADDRESS%","upstream_service_time":"%RESP(X-ENVOY-UPSTREAM-SERVICE-TIME)%","upstream_transport_failure_reason":"%UPSTREAM_TRANSPORT_FAILURE_REASON%","user_agent":"%REQ(USER-AGENT)%","x_forwarded_for":"%REQ(X-FORWARDED-FOR)%"}
&AccessLogFile=""
&AccessLogProject=mesh-log-cf245a429b6ff4b6e97f20797758eefd4
&EnableCRHistory=false
&CRAggregationEnabled=false
&TerminationDrainDuration=5s
&ProxyInitCPUResourceLimit=2000m
&ProxyInitMemoryResourceLimit=1024Mi
&ProxyInitCPUResourceRequest=10m
&ProxyInitMemoryResourceRequest=10Mi
&Lifecycle={"postStart":{"exec":{"command":["pilot-agent","wait"]},"preStop":{"exec":{"command":["/bin/sh","-c","sleep 15"]}}}}
&MultiBufferEnabled=false
&MultiBufferPollDelay=0.02s
&DiscoverySelectors=[{"matchExpressions":[{"key":"asm-discovery","operator":"Exists"}]}]
&<Common request parameters>

```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateMeshFeatureResponse>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
</UpdateMeshFeatureResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

5.5. DescribeServiceMeshes

Queries the information about Alibaba Cloud Service Mesh (ASM) instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeServiceMeshes	The operation that you want to perform. Set the value to DescribeServiceMeshes .

Response parameters

Parameter	Type	Example	Description
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.
ServiceMeshes	Array of ServiceMesh		The information about the ASM instances.
Endpoints	Object		All endpoints of the ASM instance.
IntranetPilotEndpoint	String	192.168.xx.xx:15011	The endpoint that is used to access Istio Pilot from the internal network.
ReverseTunnelEndpoint	String	...	The endpoint of the reverse tunnel.

Parameter	Type	Example	Description
PublicPilotEndpoint	String	182.92.xx.xx:15011	The endpoint that is used to expose Istio Pilot to the Internet.
IntranetApiServerEndpoint	String	https://192.168.xx.xx:6443	The endpoint that is used to access the API server from the internal network.
PublicApiServerEndpoint	String	https://123.56.xx.xx:6443	The endpoint that is used to expose the API server to the Internet.
ServiceMeshInfo	Object		The basic information about the ASM instance.
Profile	String	Pro	The edition of the ASM instance before ASM is available for commercial use. Valid values: <code>Pro</code> : Professional Edition <code>Default</code> : Standard Edition
CreationTime	String	2020-04-21T09:42:20+08:00	The point in time when the ASM instance was created.
UpdateTime	String	2020-04-21T09:42:20+08:00	The point in time when the ASM instance was last modified.
ErrorMessage	String	error	The error message that is returned when the call failed.
Version	String	1	The version number of the ASM instance.
State	String	success	The status of the ASM instance.
ServiceMeshId	String	cb8963379255149cb98c8686f274x****	The ID of the ASM instance.
Name	String	test	The name of the ASM instance.
RegionId	String	cn-beijing	The ID of the region in which the ASM instance resides.
Spec	Object		The specifications of the ASM instance.
Network	Object		The network configurations of the ASM instance.
VpcId	String	vpc-2zew0rajikmxy2369****	The ID of the virtual private cloud (VPC).

Parameter	Type	Example	Description
SecurityGroupId	String	sg-2ze384sxttxbctnj****	The ID of the security group.
VSwitches	Array of String	["1","2"]	The IDs of vSwitches.
LoadBalancer	Object		The information about load balancing.
PilotPublicEip	Boolean	true	Indicates whether Istio Pilot is exposed to the Internet. Valid values: <code>true</code> : Istio Pilot is exposed to the Internet. <code>false</code> : Istio Pilot is not exposed to the Internet.
PilotPublicLoadbalancerId	String	lb-2zesa8qs8kbkj9jkl****	The ID of the Server Load Balancer (SLB) instance that is used when Istio Pilot is exposed to the Internet.
ApiServerLoadbalancerId	String	lb-2zekaak10uxds44vx****	The ID of the SLB instance that is used when the API server is exposed to the Internet.
ApiServerPublicEip	Boolean	true	Indicates whether the API Server is exposed to the Internet. Valid values: <code>true</code> : The API server is exposed to the Internet. <code>false</code> : The API server is not exposed to the Internet.
MeshConfig	Object		The configurations of the ASM instance.
Telemetry	Boolean	true	Indicates whether Prometheus monitoring is enabled. We recommend that you use Prometheus Service of Application Real-Time Monitoring Service (ARMS). Valid values: <code>true</code> : Prometheus monitoring is enabled. <code>false</code> : Prometheus monitoring is disabled.
OutboundTrafficPolicy	String	ALLOW_ANY	The outbound traffic policy. Valid values: <code>ALLOW_ANY</code> : Outbound traffic to an external service is allowed. <code>REGISTRY_ONLY</code> : Outbound traffic is allowed to only external services that are defined in the service registry of the ASM instance.

Parameter	Type	Example	Description
Tracing	Boolean	true	Indicates whether the tracing feature is enabled. This feature can be enabled only after Tracing Analysis is activated. Valid values: <code>true</code> : The tracing feature is enabled. <code>false</code> : The tracing feature is disabled.
StrictMtls	Boolean	true	Indicates whether mutual Transport Layer Security (mTLS) is strictly enforced.
Pilot	Object		The configurations of the control plane.
Http10Enabled	Boolean	true	Indicates whether the support for HTTP 1.0 is enabled. Valid values: <code>true</code> : The support for HTTP 1.0 is enabled. <code>false</code> : The support for HTTP 1.0 is disabled.
TraceSampling	Float	0.2	The sampling percentage of tracing.
Mtls	Boolean	true	Indicates whether the feature of routing traffic to the nearest instance is enabled. Valid values: <code>true</code> : The feature is enabled. <code>false</code> : The feature is disabled.
SidecarInjector	Object		The configurations of sidecar injection.
EnableNamespacesByDefault	Boolean	false	Indicates whether automatic sidecar injection is enabled for all namespaces. Valid values: <code>true</code> : Automatic sidecar injection is enabled for all namespaces. <code>false</code> : Automatic sidecar injection is disabled for all namespaces.
AutoInjectionPolicyEnabled	Boolean	true	Indicates whether automatic sidecar injection is enabled by using annotations.
InitCNIConfiguration	Object		The initial configurations of Container Network Interface (CNI).
ExcludeNamespaces	String	default,foo	The namespace for which sidecar injection is disabled.

Parameter	Type	Example	Description
Enabled	Boolean	true	Indicates whether elevated privileges are required for the istio-init container when you perform traffic redirection for the istio-proxy container. Valid values: <code>true</code>: Elevated privileges are required for the istio-init container. <code>false</code>: Elevated privileges are not required for the istio-init container.
Clusters	Array of String	["caf089e56daba4c51a8906fe43ea1****", "c80f45444b3da447da60a911390c2****"]	The information about the clusters.
ClusterSpec	String	standard	The edition of the ASM instance. Valid values: <code>standard</code>: Standard Edition <code>enterprise</code>: Enterprise Edition <code>ultimate</code>: Ultimate Edition
OwnerType	String	ackone	The Alibaba Cloud service for which the ASM instance is created. Valid values: <code>ackone</code>: The ASM instance is created for Alibaba Cloud Distributed Cloud Container Platform (ACK One). - An empty value indicates that the ASM instance is created by the user.
OwnerId	String	cc3e96f249d124eb38b72718ec5****	The ID of the Alibaba Cloud service instance for which the ASM instance is created.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeServiceMeshes
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeServiceMeshesResponse>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
  <ServiceMeshes>
    <Endpoints>
      <IntranetPilotEndpoint>192.168.xx.xx:15011</IntranetPilotEndpoint>
      <ReverseTunnelEndpoint>...</ReverseTunnelEndpoint>
      <PublicPilotEndpoint>182.92.xx.xx:15011</PublicPilotEndpoint>
      <IntranetApiServerEndpoint>https://192.168.xx.xx:6443</IntranetApiServerEndpoint>
      <PublicApiServerEndpoint>https://123.56.xx.xx:6443</PublicApiServerEndpoint>
    </Endpoints>
  </ServiceMeshes>
</DescribeServiceMeshesResponse>
```

```

    </Endpoints>
    <ServiceMeshInfo>
      <Profile>Pro</Profile>
      <CreationTime>2020-04-21T09:42:20+08:00</CreationTime>
      <UpdateTime>2020-04-21T09:42:20+08:00</UpdateTime>
      <ErrorMessage>error</ErrorMessage>
      <Version>1</Version>
      <State>success</State>
      <ServiceMeshId>cb8963379255149cb98c8686f274x****</ServiceMeshId>
      <Name>test</Name>
      <RegionId>cn-beijing</RegionId>
    </ServiceMeshInfo>
    <Spec>
      <Network>
        <VpcId>vpc-2zew0rajkkmy2369****</VpcId>
        <SecurityGroupId>sg-2ze384sxttxbctnj****</SecurityGroupId>
        <VSwitches>["1","2"]</VSwitches>
      </Network>
      <LoadBalancer>
        <PilotPublicEip>true</PilotPublicEip>
        <PilotPublicLoadbalancerId>lb-2zesa8qs8kbkj9jkl****</PilotPublicLoadbalancerId>
        <ApiServerLoadbalancerId>lb-2zekaakl0uxds44vx****</ApiServerLoadbalancerId>
        <ApiServerPublicEip>true</ApiServerPublicEip>
      </LoadBalancer>
      <MeshConfig>
        <Telemetry>true</Telemetry>
        <OutboundTrafficPolicy>xxx</OutboundTrafficPolicy>
        <Tracing>true</Tracing>
        <StrictMtls>true</StrictMtls>
        <Pilot>
          <Http10Enabled>true</Http10Enabled>
          <TraceSampling>0.2</TraceSampling>
        </Pilot>
        <Mtls>true</Mtls>
        <SidecarInjector>
          <EnableNamespacesByDefault>false</EnableNamespacesByDefault>
          <AutoInjectionPolicyEnabled>true</AutoInjectionPolicyEnabled>
          <InitCNICConfiguration>
            <ExcludeNamespaces>default,foo</ExcludeNamespaces>
            <Enabled>true</Enabled>
          </InitCNICConfiguration>
        </SidecarInjector>
      </MeshConfig>
    </Spec>
    <Clusters>["caf089e56daba4c51a8906fe43ea1****","c80f45444b3da447da60a911390c2****"]</Clusters>
    <ClusterSpec>standard</ClusterSpec>
    <OwnerType>ackone</OwnerType>
    <OwnerId>cc3e96f249d124eb38b72718ec5****</OwnerId>
  </ServiceMeshes>
</DescribeServiceMeshesResponse>

```

JSON **format**

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****",
  "ServiceMeshes" : {
    "Endpoints" : {
      "IntranetPilotEndpoint" : "192.168.xx.xx:15011",

```



```

    "ReverseTunnelEndpoint" : "...",
    "PublicPilotEndpoint" : "182.92.xx.xx:15011",
    "IntranetApiServerEndpoint" : "https://192.168.xx.xx:6443",
    "PublicApiServerEndpoint" : "https://123.56.xx.xx:6443"
  },
  "ServiceMeshInfo" : {
    "Profile" : "Pro",
    "CreationTime" : "2020-04-21T09:42:20+08:00",
    "UpdateTime" : "2020-04-21T09:42:20+08:00",
    "ErrorMessage" : "error",
    "Version" : 1,
    "State" : "success",
    "ServiceMeshId" : "cb8963379255149cb98c8686f274x****",
    "Name" : "test",
    "RegionId" : "cn-beijing"
  },
  "Spec" : {
    "Network" : {
      "VpcId" : "vpc-2zew0rajjkmxy2369****",
      "SecurityGroupId" : "sg-2ze384sxttxbctnj****",
      "VSwitches" : "[\"1\", \"2\"]"
    },
    "LoadBalancer" : {
      "PilotPublicEip" : true,
      "PilotPublicLoadbalancerId" : "lb-2zesa8qs8kbkj9jkl****",
      "ApiServerLoadbalancerId" : "lb-2zekaak10uxds44vx****",
      "ApiServerPublicEip" : true
    },
    "MeshConfig" : {
      "Telemetry" : true,
      "OutboundTrafficPolicy" : "xxx",
      "Tracing" : true,
      "StrictMtls" : true,
      "Pilot" : {
        "Http10Enabled" : true,
        "TraceSampling" : 0.2
      },
      "Mtls" : true,
      "SidecarInjector" : {
        "EnableNamespacesByDefault" : false,
        "AutoInjectionPolicyEnabled" : true,
        "InitCNICConfiguration" : {
          "ExcludeNamespaces" : "default,foo",
          "Enabled" : true
        }
      }
    },
    "Clusters" : "[\"caf089e56daba4c51a8906fe43ea1****\", \"c80f45444b3da447da60a911390c2****\"]",
    "ClusterSpec" : "standard",
    "OwnerType" : "ackone",
    "OwnerId" : "cc3e96f249d124eb38b72718ec5*****"
  }
}

```

Error codes

For a list of error codes, visit the [API Error Center](#).

5.6. DescribeServiceMeshDetail

Queries the details of an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeServiceMeshDetail	The operation that you want to perform. Set the value to DescribeServiceMeshDetail .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	11fd0027-c27e-41bb-a565-75583054****	The ID of the request.
ServiceMesh	Object		The details of the ASM instance.
Endpoints	Object		All endpoints of the ASM instance.
IntranetPilotEndpoint	String	192.168.**.**:15011	The endpoint that is used to access Istio Pilot from the internal network.
PublicPilotEndpoint	String	182.92.**.**:15011	The endpoint that is used to expose Istio Pilot to the Internet.
IntranetApiServerEndpoint	String	https://192.168.**.**:6443	The endpoint that is used to access the API server from the internal network.
PublicApiServerEndpoint	String	https://123.56.**.**:6443	The endpoint that is used to expose the API server to the Internet.
ServiceMeshInfo	Object		The basic information about the ASM instance.
Profile	String	Default	The edition of the ASM instance. Valid values: <code>Default</code> : Standard Edition <code>Pro</code> : Professional Edition

Parameter	Type	Example	Description
CreationTime	String	2020-04-21T09:42:20+08:00	The point in time when the ASM instance was created.
UpdateTime	String	2020-06-03T14:48:54+08:00	The point in time when the ASM instance was last modified.
ErrorMessage	String	error	The error message that is returned when the call failed.
Version	String	v1.7.4.0-gfb34ba99-aliyun	The version number of the ASM instance.
State	String	running	The status of the ASM instance.
ServiceMeshId	String	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
Name	String	mesh1	The name of the ASM instance.
RegionId	String	cn-beijing	The ID of the region in which the ASM instance resides.
Spec	Object		The specifications of the ASM instance.
Network	Object		The network configurations of the ASM instance.
VpcId	String	vpc-2zew0rajikmxy2369****	The ID of the virtual private cloud (VPC).
SecurityGroupId	String	sg-2ze384sxttxbctnj****	The ID of the security group.
VSwitches	Array of String	vsw-2ze66z3ntvsej0mdo*** *	The IDs of vSwitches.
LoadBalancer	Object		The information about load balancing.
PilotPublicEip	Boolean	true	Indicates whether Istio Pilot is exposed to the Internet. Valid values: <code>true</code>: Istio Pilot is exposed to the Internet. <code>false</code>: Istio Pilot is not exposed to the Internet.

Parameter	Type	Example	Description
PilotPublicLoadbalancerId	String	lb-2zesa8qs8kbkj9jkl****	The ID of the Server Load Balancer (SLB) instance that is used when Istio Pilot is exposed to the Internet.
ApiServerLoadbalancerId	String	lb-2zekaak10uxds44vx****	The ID of the SLB instance that is used when the API server is exposed to the Internet.
ApiServerPublicEip	Boolean	true	Indicates whether the API Server is exposed to the Internet. Valid values: <code>true</code>: The API server is exposed to the Internet. <code>false</code>: The API server is not exposed to the Internet.
MeshConfig	Object		The configurations of the ASM instance.
OPA	Object		The information about the Open Policy Agent (OPA) plug-in.
RequestMemory	String	1024Mi	The size of the memory that is requested by OPA.
LogLevel	String	info	The level of the log to be generated for OPA.
Enabled	Boolean	true	Indicates whether the OPA plug-in is installed. Valid values: <code>true</code>: The OPA plug-in is installed. <code>false</code>: The OPA plug-in is not installed.
LimitMemory	String	512Mi	The maximum size of the memory that is available to OPA.
RequestCPU	String	2	The number of CPU cores that are requested by OPA.
LimitCPU	String	1	The maximum number of CPU cores that are available to OPA.
Prometheus	Object		The information about Prometheus monitoring.

Parameter	Type	Example	Description
UseExternal	Boolean	false	Indicates whether a custom Prometheus instance is used. Valid values: <code>true</code>: A custom Prometheus instance is used. <code>false</code>: No custom Prometheus instance is used.
ExternalUrl	String	http://prometheus:9090	The endpoint of Prometheus monitoring. If a custom Prometheus instance is used, the endpoint of Prometheus monitoring is set by the system.
AccessLog	Object		The configurations of access log collection.
Enabled	Boolean	true	Indicates whether access log collection is enabled. Valid values: <code>true</code>: Access log collection is enabled. <code>false</code>: Access log collection is disabled.
Project	String	k8s-log-b7b05d08670e41ca8c8fc0b7718f*****	The name of the Log Service project that stores access logs.
Pilot	Object		The Pilot configurations.
Http10Enabled	Boolean	false	Indicates whether the support for HTTP 1.0 is enabled. Valid values: <code>true</code>: The support for HTTP 1.0 is enabled. <code>false</code>: The support for HTTP 1.0 is disabled.
TraceSampling	Float	100	The sampling percentage of tracing.
Feature	Object		The configurations of Pilot features.
FilterGatewayClusterConfig	Boolean	false	Indicates whether gateway configuration filtering is enabled. Valid values: <code>true</code>: Gateway configuration filtering is enabled. <code>false</code>: Gateway configuration filtering is disabled.

Parameter	Type	Example	Description
EnableSDSServer	Boolean	false	Indicates whether Secret Discovery Service (SDS) is enabled. Valid values: <code>true</code> : SDS is enabled. <code>false</code> : SDS is disabled.
ConfigSource	Object		The configurations of external service access.
Enabled	Boolean	false	Indicates whether external service access is allowed. <code>true</code> : External service access is allowed. <code>false</code> : External service access is not allowed.
NacosID	String	mse-cn-tl326*****	The ID of the Nacos instance that provides external service information.
MSE	Object		The Microservices Engine (MSE) configurations.
Enabled	Boolean	false	Indicates whether MSE is enabled. Valid values: <code>true</code> : MSE is enabled. <code>false</code> : MSE is disabled.
CustomizedZipkin	Boolean	false	Indicates whether a custom Zipkin system is enabled. <code>true</code> : A custom Zipkin system is enabled. <code>false</code> : No custom Zipkin system is enabled.
SidecarInjector	Object		The configurations of the sidecar injector.
EnableNamespacesByDefault	Boolean	false	Indicates whether automatic sidecar injection is enabled for all namespaces. Valid values: <code>true</code> : Automatic sidecar injection is enabled for all namespaces. <code>false</code> : Automatic sidecar injection is disabled for all namespaces.
RequestMemory	String	512Mi	The size of the memory that is requested by the sidecar injector pod.
LimitMemory	String	2048Mi	The maximum size of the memory that is available to the sidecar injector pod.

Parameter	Type	Example	Description
RequestCPU	String	1000m	The number of CPU cores that are requested by the sidecar injector pod.
AutoInjectionPolicyEnabled	Boolean	true	Indicates whether automatic sidecar injection can be enabled by using annotations. Valid values: <code>true</code> : Automatic sidecar injection can be enabled by using annotations. <code>false</code> : Automatic sidecar injection cannot be enabled by using annotations.
LimitCPU	String	4000m	The maximum number of CPU cores that are available to the sidecar injector pod.
InitCNIConfiguration	Object		The initial configurations of Container Network Interface (CNI).
ExcludeNamespaces	String	kube-system,istio-system	The namespace for which sidecar injection is disabled.
Enabled	Boolean	false	Indicates whether the CNI plug-in is enabled. Valid values: <code>true</code> : The CNI plug-in is enabled. <code>false</code> : The CNI plug-in is disabled.
SidecarInjectorWebhookAsYaml	String	null	Other configurations of automatic sidecar injection, in the YAML format. For more information, see Enable automatic sidecar injection by using multiple methods .
IncludeIPRanges	String	192.168.0.0/16	The CIDR block from which access is blocked.
ExcludeIPRanges	String	172.16.0.0	The CIDR block from which access is not blocked.
ExcludeOutboundPorts	String	80,81	The outbound ports from which access is not blocked.
ExcludeInboundPorts	String	80,81	The inbound ports from which access is not blocked.
Telemetry	Boolean	true	Indicates whether Prometheus monitoring is enabled. We recommend that you use Prometheus Service of Application Real-Time Monitoring Service (ARMS) . Valid values: <code>true</code> : Prometheus monitoring is enabled. <code>false</code> : Prometheus monitoring is disabled.

Parameter	Type	Example	Description
Edition	Object		The information about the edition.
Name	String	Pro	The name of the edition.
IstiodImageTag	String	v1.9.7.1-3-gb3f1ab3c9c-pro-aliyun	The version of the Istiod image.
ProxyImageTag	String	v1.9.7.1-3-gb3f1ab3c9c-pro-aliyun	The version of the Istio Proxy image.
ProtocolSupport	Object		The configurations of protocol support.
MySQLFilterEnabled	Boolean	false	Indicates whether MySQL Filter is enabled. Valid values: <code>true</code> : MySQL Filter is enabled. <code>false</code> : MySQL Filter is disabled.
RedisFilterEnabled	Boolean	false	Indicates whether Redis Filter is enabled. Valid values: <code>true</code> : Redis Filter is enabled. <code>false</code> : Redis Filter is disabled.
ThriftFilterEnabled	Boolean	false	Indicates whether Thrift Filter is enabled. Valid values: <code>true</code> : Thrift Filter is enabled. <code>false</code> : Thrift Filter is disabled.
DubboFilterEnabled	Boolean	false	Indicates whether Dubbo Filter is enabled. Valid values: <code>true</code> : Dubbo Filter is enabled. <code>false</code> : Dubbo Filter is disabled.
OutboundTrafficPolicy	String	ALLOW_ANY	The outbound traffic policy. Valid values: <code>ALLOW_ANY</code> : Outbound traffic to an external service is allowed. <code>REGISTRY_ONLY</code> : Outbound traffic is allowed to only external services that are defined in the service registry of the ASM instance.
Kiali	Object		The Kiali configurations.

Parameter	Type	Example	Description
Enabled	Boolean	false	Indicates whether Kiali is enabled. Kiali can be enabled only after Prometheus monitoring is enabled. If Prometheus monitoring is disabled, the value of this parameter is <code>false</code> . Valid values: <code>true</code>: Kiali is enabled. <code>false</code>: Kiali is disabled.
Url	String	http://1.2.**.*:20001	The endpoint of Kiali.
Tracing	Boolean	true	Indicates whether the tracing feature is enabled. This feature can be enabled only after Tracing Analysis is activated. Valid values: <code>true</code>: The tracing feature is enabled. <code>false</code>: The tracing feature is disabled.
WebAssemblyFilterDeployment	Object		The configurations of WebAssembly Filter.
Enabled	Boolean	false	Indicates whether WebAssembly Filter is enabled. Valid values: <code>true</code>: WebAssembly Filter is enabled. <code>false</code>: WebAssembly Filter is disabled.
EnableLocalityLB	Boolean	true	Indicates whether the feature of routing traffic to the nearest instance is enabled. Valid values: <code>true</code>: The feature is enabled. <code>false</code>: The feature is disabled.
Audit	Object		The information about mesh audit.
Enabled	Boolean	true	Indicates whether the mesh audit feature is enabled. Valid values: <code>true</code>: The mesh audit feature is enabled. <code>false</code>: The mesh audit feature is disabled.
Project	String	audit-project	The name of the Log Service project that is used for mesh audit.
AuditProjectStatus	String	audit_project_not_exist	Indicates whether an audit project exists in the ASM instance. Valid values: <code>audit_project_exist</code>: An audit project exists. <code>audit_project_not_exist</code>: No audit project exists.

Parameter	Type	Example	Description
Proxy	Object		The proxy configurations.
RequestMemory	String	128Mi	The size of the memory that is requested.
ClusterDomain	String	cluster.domain	The trusted domain.
LimitMemory	String	1024Mi	The maximum size of the memory.
RequestCPU	String	100m	The number of CPU cores that are requested.
EnabledDNSProxying	Boolean	false	Indicates whether the Domain Name System (DNS) proxy feature is enabled. Valid values: <code>true</code> : The DNS proxy feature is enabled. <code>false</code> : The DNS proxy feature is disabled.
LimitCPU	String	2000m	The maximum number of CPU cores.
AccessLogServiceEnabled	Boolean	false	Indicates whether gRPC Access Log Service (ALS) for Envoy is enabled. Valid values: <code>true</code> : gRPC ALS for Envoy is enabled. <code>false</code> : gRPC ALS for Envoy is disabled.
AccessLogServiceHost	String	0.0.0.0	The endpoint of gRPC ALS for Envoy.
AccessLogServicePort	Integer	9999	The port of gRPC ALS for Envoy.
AccessLogFormat	String	null	The format of the access logs of sidecar proxies.
AccessLogFile	String	/dev/stdout	The path to the file that stores the access logs of sidecar proxies.
K8sNewAPISupport	Object		The information about the Kubernetes API.
GatewayAPIEnabled	Boolean	false	Indicates whether Gateway API is enabled. Valid values: <code>true</code> : Gateway API is enabled. <code>false</code> : Gateway API is disabled.
LocalityLB	Object		The configurations of cross-region load balancing.

Parameter	Type	Example	Description
Enabled	Boolean	false	Indicates whether cross-region load balancing is enabled. Valid values: <code>true</code>: Cross-region load balancing is enabled. <code>false</code>: Cross-region load balancing is disabled.
Failover	Map		The configurations of cross-region failover. Only one of the <code>Distribute</code> and <code>Failover</code> parameters can be set.
Distribute	Map		The configurations of cross-region traffic distribution. Only one of the <code>Failover</code> and <code>Distribute</code> parameters can be set.
ControlPlaneLogInfo	Object		The configurations for the collection of control plane logs.
Enabled	Boolean	false	Indicates whether the collection of control plane logs is enabled. Valid values: <code>true</code>: The collection of control plane logs is enabled. <code>false</code>: The collection of control plane logs is disabled.
Project	String	mesh-log-cbeb85a09161b4a26ab73e0ac****	The name of the Log Service project that stores control plane logs.
ExtraConfiguration	Object		The configurations of additional features for the ASM instance.
IstioCRHistory	Object		The configurations of the rollback feature for Istio resources.
EnableHistory	Boolean	false	Indicates whether the rollback feature for Istio resources is enabled. Valid values: <code>true</code>: The rollback feature for Istio resources is enabled. <code>false</code>: The rollback feature for Istio resources is disabled.

Parameter	Type	Example	Description
CRAggregationEnabled	Boolean	false	Indicates whether the Kubernetes API of clusters on the data plane is allowed to access Istio resources. Valid values: <code>true</code>: The Kubernetes API of clusters on the data plane is allowed to access Istio resources. <code>false</code>: The Kubernetes API of clusters on the data plane is not allowed to access Istio resources.
MultiBuffer	Object		The information about Transport Layer Security (TLS) acceleration based on MultiBuffer.
Enabled	Boolean	false	Indicates whether the MultiBuffer-based TLS acceleration feature is enabled. Valid values: <code>true</code>: The MultiBuffer-based TLS acceleration feature is enabled. <code>false</code>: The MultiBuffer-based TLS acceleration feature is disabled.
PollDelay	String	0.02s	The pull-request latency.
TerminationDrainDuration	String	5s	The maximum period of time that Istio Proxy waits for a request to end.
Lifecycle	Object		The lifecycle of Istio Proxy.
postStart	Object		The post-start parameters.
exec	Object		The post-start script.
command	Array of String	sleep 3s	The executed command.
httpGet	Object		The HTTP GET request that is sent after the instance starts.
port	String	80	The port number of the request.
host	String	127.xx.xx.1	The URL of the request.
scheme	String	http	The request method. Valid values: <code>http</code> and <code>https</code> .
httpHeaders	Array of httpHeaders		The HTTP request headers.

Parameter	Type	Example	Description
name	String	key	The name of the HTTP request header.
value	String	value	The value of the HTTP request header field.
tcpSocket	Object		The TCP socket request that is sent.
port	String	888	The port number of the TCP socket request.
host	String	127.xx.xx.1	The URL of the TCP socket request.
preStop	Object		The pre-close parameters.
exec	Object		The pre-close script.
command	Array of String	sleep 3s	The executed command.
httpGet	Object		The HTTP GET request that is sent before the instance stops.
port	String	80	The port number of the request.
host	String	127.xx.xx.1	The URL of the request.
scheme	String	http	The request method. Valid values: <code>http</code> and <code>https</code> .
httpHeaders	Array of httpHeaders		The HTTP request headers.
name	String	key	The name of the HTTP request header.
value	String	value	The value of the HTTP request header field.
tcpSocket	Object		The TCP socket request that is sent.
port	String	888	The port number of the request.
host	String	127.xx.xx.1	The URL of the request.
SidecarProxyInitResourceLimit	Object		The resource limits on the istio-init container.

Parameter	Type	Example	Description
ResourceCPULimit	String	2000m	The maximum number of CPU cores that are available to the istio-init container.
ResourceMemoryLimit	String	1024Mi	The maximum size of the memory that is available to the istio-init container.
SidecarProxyInitResourceRequest	Object		The resources that are required by the istio-init container.
ResourceCPURequest	String	10m	The number of CPU cores that are requested by the istio-init container.
ResourceMemoryRequest	String	10Mi	The size of the memory that is requested by the istio-init container.
DiscoverySelectors	Array of Object	<pre>[{"matchExpressions": [{"key": "asm-discovery", "operator": "Exists"}]}</pre>	The label selectors used to specify the namespaces of the clusters on the data plane for selective service discovery.
RateLimit	Object		The configurations of Application High Availability Service (AHAS)-based throttling.
EnableGlobalRateLimit	Boolean	false	Indicates whether AHAS-based throttling is enabled. Valid values: <code>true</code> : AHAS-based throttling is enabled. <code>false</code> : AHAS-based throttling is disabled.
OPAScopeInjection	Object		The configurations of the feature of controlling the OPA injection scope.
OPAScopeInjected	Boolean	false	Indicates whether the feature of controlling the OPA injection scope is enabled. Valid values: <code>true</code> : The feature is enabled. <code>false</code> : The feature is disabled.
Clusters	Array of String	<pre>["caf089e56daba4c51a8906fe43ea1****", "c80f45444b3da447da60a911390c2****"]</pre>	The list of clusters.
ClusterSpec	String	standard	The edition of the ASM instance. Valid values: <code>standard</code> : Standard Edition <code>enterprise</code> : Enterprise Edition <code>ultimate</code> : Ultimate Edition

Parameter	Type	Example	Description
OwnerType	String	ackone	The Alibaba Cloud service for which the ASM instance is created. Valid values: <code>ackone</code>: The ASM instance is created for Alibaba Cloud Distributed Cloud Container Platform (ACK One). - An empty value indicates that the ASM instance is created by the user.
OwnerId	String	cc3e96f249d124eb38b72718ec5*****	The ID of the Alibaba Cloud service instance for which the ASM instance is created.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeServiceMeshDetail
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeServiceMeshDetailResponse>
  <RequestId>11fd0027-c27e-41bb-a565-75583054****</RequestId>
  <ServiceMesh>
    <Endpoints>
      <IntranetPilotEndpoint>192.168.***.**:15011</IntranetPilotEndpoint>
      <PublicPilotEndpoint>182.92.***.**:15011</PublicPilotEndpoint>
      <IntranetApiServerEndpoint>https://192.168.***.**:6443</IntranetApiServerEndpoint>
      <PublicApiServerEndpoint>https://123.56.***.**:6443</PublicApiServerEndpoint>
    </Endpoints>
    <ServiceMeshInfo>
      <Profile>Default</Profile>
      <CreationTime>2020-04-21T09:42:20+08:00</CreationTime>
      <UpdateTime>2020-06-03T14:48:54+08:00</UpdateTime>
      <ErrorMessage> error</ErrorMessage>
      <Version>v1.7.4.0-gfb34ba99-aliyun</Version>
      <State>running</State>
      <ServiceMeshId>c08ba3fd1e6484b0f8cc1ad8fe10d****</ServiceMeshId>
      <Name>mesh1</Name>
      <RegionId>cn-beijing</RegionId>
    </ServiceMeshInfo>
    <Spec>
      <Network>
        <VpcId>vpc-2zew0rajjkmxy2369****</VpcId>
        <SecurityGroupId>sg-2ze384sxttxbctnj****</SecurityGroupId>
        <VSwitches>vsw-2ze66z3ntvsej0mdo****</VSwitches>
      </Network>
      <LoadBalancer>
        <PilotPublicEip>true</PilotPublicEip>
        <PilotPublicLoadbalancerId>lb-2zesa8qs8kbkj9jkl****</PilotPublicLoadbalancerId>
        <ApiServerLoadbalancerId>lb-2zekaakl0uxds44vx****</ApiServerLoadbalancerId>
        <ApiServerPublicEip>true</ApiServerPublicEip>
```

```

    <ApiserverPublicIP>true</ApiserverPublicIP>
  </LoadBalancer>
  <MeshConfig>
    <OPA>
      <RequestMemory>1024Mi</RequestMemory>
      <LogLevel>info</LogLevel>
      <Enabled>true</Enabled>
      <LimitMemory>512Mi</LimitMemory>
      <RequestCPU>2</RequestCPU>
      <LimitCPU>1</LimitCPU>
    </OPA>
    <Prometheus>
      <UseExternal>false</UseExternal>
      <ExternalUrl>http://prometheus:9090</ExternalUrl>
    </Prometheus>
    <AccessLog>
      <Enabled>true</Enabled>
      <Project>k8s-log-b7b05d08670e41ca8c8fc0b7718f*****</Project>
    </AccessLog>
    <Pilot>
      <Http10Enabled>false</Http10Enabled>
      <TraceSampling>100</TraceSampling>
      <Feature>
        <FilterGatewayClusterConfig>false</FilterGatewayClusterConfig>
        <EnableSDSServer>false</EnableSDSServer>
      </Feature>
      <ConfigSource>
        <Enabled>false</Enabled>
        <NacosID>mse-cn-tl326*****</NacosID>
      </ConfigSource>
    </Pilot>
    <MSE>
      <Enabled>false</Enabled>
    </MSE>
    <CustomizedZipkin>false</CustomizedZipkin>
    <SidecarInjector>
      <EnableNamespacesByDefault>false</EnableNamespacesByDefault>
      <RequestMemory>512Mi</RequestMemory>
      <LimitMemory>2048Mi</LimitMemory>
      <RequestCPU>1000m</RequestCPU>
      <AutoInjectionPolicyEnabled>true</AutoInjectionPolicyEnabled>
      <LimitCPU>4000m</LimitCPU>
      <InitCNICConfiguration>
        <ExcludeNamespaces>kube-system,istio-system</ExcludeNamespaces>
        <Enabled>false</Enabled>
      </InitCNICConfiguration>
      <SidecarInjectorWebhookAsYaml>{"injectedAnnotations":{"test/istio-init":"runtime/default2","test/istio-proxy":"runtime/default"},"replicaCount":2,"nodeSelector":{"beta.kubernetes.io/os":"linux"}}</SidecarInjectorWebhookAsYaml>
    </SidecarInjector>
    <IncludeIPRanges>192.168.0.0/16</IncludeIPRanges>
    <ExcludeIPRanges>172.16.0.0</ExcludeIPRanges>
    <ExcludeOutboundPorts>80,81</ExcludeOutboundPorts>
    <ExcludeInboundPorts>80,81</ExcludeInboundPorts>
    <Telemetry>true</Telemetry>
    <Edition>
      <Name>Pro</Name>
      <IstiodImageTag>v1.9.7.1-3-gb3flab3c9c-pro-aliyun</IstiodImageTag>
      <ProxyImageTag>v1.9.7.1-3-gb3flab3c9c-pro-aliyun</ProxyImageTag>
    </Edition>
    <ProtocolSupport>

```



```

        <MysqlFilterEnabled>false</MysqlFilterEnabled>
        <RedisFilterEnabled>false</RedisFilterEnabled>
        <ThriftFilterEnabled>false</ThriftFilterEnabled>
        <DubboFilterEnabled>false</DubboFilterEnabled>
    </ProtocolSupport>
    <OutboundTrafficPolicy>ALLOW_ANY</OutboundTrafficPolicy>
    <Kiali>
        <Enabled>false</Enabled>
        <Url>http://1.2.**.**:20001</Url>
    </Kiali>
    <Tracing>true</Tracing>
    <WebAssemblyFilterDeployment>
        <Enabled>false</Enabled>
    </WebAssemblyFilterDeployment>
    <EnableLocalityLB>true</EnableLocalityLB>
    <Audit>
        <Enabled>true</Enabled>
        <Project>audit-project</Project>
        <AuditProjectStatus>audit_project_not_exist</AuditProjectStatus>
    </Audit>
    <Proxy>
        <RequestMemory>128Mi</RequestMemory>
        <ClusterDomain>cluster.domain</ClusterDomain>
        <LimitMemory>1024Mi</LimitMemory>
        <RequestCPU>100m</RequestCPU>
        <EnableDNSProxying>false</EnableDNSProxying>
        <LimitCPU>2000m</LimitCPU>
        <AccessLogServiceEnabled>false</AccessLogServiceEnabled>
        <AccessLogServiceHost>0.0.0.0</AccessLogServiceHost>
        <AccessLogServicePort>9999</AccessLogServicePort>
        <AccessLogFormat>{"authority_for":"%REQ(:AUTHORITY)%","bytes_received":"%BYTES_RECEIVED%",
"bytes_sent":"%BYTES_SENT%", "downstream_local_address":"%DOWNSTREAM_LOCAL_ADDRESS%", "downstream_remote_address":"%DOWNSTREAM_REMOTE_ADDRESS%", "duration":"%DURATION%", "istio_policy_status":"%DYNAMIC_METADATA(istio.mixer:status)%", "method":"%REQ(:METHOD)%", "path":"%REQ(X-ENVOY-ORIGINAL-PATH?:PATH)%", "protocol":"%PROTOCOL%", "request_id":"%REQ(X-REQUEST-ID)%", "requested_server_name":"%REQUESTED_SERVER_NAME%", "response_code":"%RESPONSE_CODE%", "response_flags":"%RESPONSE_FLAGS%", "route_name":"%ROUTE_NAME%", "start_time":"%START_TIME%", "trace_id":"%REQ(X-B3-TRACEID)%", "upstream_cluster":"%UPSTREAM_CLUSTER%", "upstream_host":"%UPSTREAM_HOST%", "upstream_local_address":"%UPSTREAM_LOCAL_ADDRESS%", "upstream_service_time":"%RESP(X-ENVOY-UPSTREAM-SERVICE-TIME)%", "upstream_transport_failure_reason":"%UPSTREAM_TRANSPORT_FAILURE_REASON%", "user_agent":"%REQ(USER-AGENT)%", "x_forwarded_for":"%REQ(X-FORWARDED-FOR)%"}</AccessLogFormat>
        <AccessLogFile>/dev/stdout</AccessLogFile>
    </Proxy>
    <K8sNewAPIsSupport>
        <GatewayAPIEnabled>false</GatewayAPIEnabled>
    </K8sNewAPIsSupport>
    <LocalityLB>
        <Enabled>false</Enabled>
    </LocalityLB>
    <ControlPlaneLogInfo>
        <Enabled>false</Enabled>
        <Project>mesh-log-cbeb85a09161b4a26ab73e0ac****</Project>
    </ControlPlaneLogInfo>
    <ExtraConfiguration>
        <IstioCRHistory>
            <EnableHistory>false</EnableHistory>
        </IstioCRHistory>
        <CRAggregationEnabled>false</CRAggregationEnabled>
        <MultiBuffer>
            <Enabled>false</Enabled>

```

```

        <PollDelay>0.02s</PollDelay>
    </MultiBuffer>
    <TerminationDrainDuration>5s</TerminationDrainDuration>
    <Lifecycle>
        <postStart>
            <exec>
                <command>sleep 3s</command>
            </exec>
            <httpGet>
                <port>80</port>
                <host>127.xx.xx.1</host>
                <scheme>http</scheme>
                <httpHeaders>
                    <name>key</name>
                    <value>value</value>
                </httpHeaders>
            </httpGet>
            <tcpSocket>
                <port>888</port>
                <host>127.xx.xx.1</host>
            </tcpSocket>
        </postStart>
        <preStop>
            <exec>
                <command>sleep 3s</command>
            </exec>
            <httpGet>
                <port>80</port>
                <host>127.xx.xx.1</host>
                <scheme>http</scheme>
                <httpHeaders>
                    <name>key</name>
                    <value>value</value>
                </httpHeaders>
            </httpGet>
            <tcpSocket>
                <port>888</port>
                <host>127.xx.xx.1</host>
            </tcpSocket>
        </preStop>
    </Lifecycle>
    <SidecarProxyInitResourceLimit>
        <ResourceCPULimit>2000m</ResourceCPULimit>
        <ResourceMemoryLimit>1024Mi</ResourceMemoryLimit>
    </SidecarProxyInitResourceLimit>
    <SidecarProxyInitResourceRequest>
        <ResourceCPURequest>10m</ResourceCPURequest>
        <ResourceMemoryRequest>10Mi</ResourceMemoryRequest>
    </SidecarProxyInitResourceRequest>
    <DiscoverySelectors/>
    <RateLimit>
        <EnableGlobalRateLimit>>false</EnableGlobalRateLimit>
    </RateLimit>
    <OPAScopeInjection>
        <OPAScopeInjected>>false</OPAScopeInjected>
    </OPAScopeInjection>
    </ExtraConfiguration>
</MeshConfig>
</Spec>
<Clusters>["caf089e56daba4c51a8906fe43ea1****","c80f45444b3da447da60a911390c2****"]</Clusters>

```

```

    <ClusterSpec>standard</ClusterSpec>
    <OwnerType>ackone</OwnerType>
    <OwnerId>cc3e96f249d124eb38b72718ec5*****</OwnerId>
  </ServiceMesh>
</DescribeServiceMeshDetailResponse>

```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "11fd0027-c27e-41bb-a565-75583054****",
  "ServiceMesh" : {
    "Endpoints" : {
      "IntranetPilotEndpoint" : "192.168.**.*:15011",
      "PublicPilotEndpoint" : "182.92.**.*:15011",
      "IntranetApiServerEndpoint" : "https://192.168.**.*:6443",
      "PublicApiServerEndpoint" : "https://123.56.**.*:6443"
    },
    "ServiceMeshInfo" : {
      "Profile" : "Default",
      "CreationTime" : "2020-04-21T09:42:20+08:00",
      "UpdateTime" : "2020-06-03T14:48:54+08:00",
      "ErrorMessage" : "error",
      "Version" : "v1.7.4.0-gfb34ba99-aliyun",
      "State" : "running",
      "ServiceMeshId" : "c08ba3fd1e6484b0f8cc1ad8fe10d****",
      "Name" : "mesh1",
      "RegionId" : "cn-beijing"
    },
    "Spec" : {
      "Network" : {
        "VpcId" : "vpc-2zew0rajjkmxy2369****",
        "SecurityGroupId" : "sg-2ze384sxttxbctnj****",
        "VSwitches" : "vsw-2ze66z3ntvsej0mdo****"
      },
      "LoadBalancer" : {
        "PilotPublicEip" : true,
        "PilotPublicLoadbalancerId" : "lb-2zesa8qs8kbkj9jkl****",
        "ApiServerLoadbalancerId" : "lb-2zekaak10uxds44vx****",
        "ApiServerPublicEip" : true
      },
      "MeshConfig" : {
        "OPA" : {
          "RequestMemory" : "1024Mi",
          "LogLevel" : "info",
          "Enabled" : true,
          "LimitMemory" : "512Mi",
          "RequestCPU" : 2,
          "LimitCPU" : 1
        },
        "Prometheus" : {
          "UseExternal" : false,
          "ExternalUrl" : "http://prometheus:9090"
        },
        "AccessLog" : {
          "Enabled" : true,
          "Project" : "k8s-log-b7b05d08670e41ca8c8fc0b7718f****"
        },
        "Pilot" : {

```

```

    "Http10Enabled" : false,
    "TraceSampling" : 100,
    "Feature" : {
      "FilterGatewayClusterConfig" : false,
      "EnableSDSServer" : false
    },
    "ConfigSource" : {
      "Enabled" : false,
      "NacosID" : "mse-cn-tl326*****"
    }
  },
  "MSE" : {
    "Enabled" : false
  },
  "CustomizedZipkin" : false,
  "SidecarInjector" : {
    "EnableNamespacesByDefault" : false,
    "RequestMemory" : "512Mi",
    "LimitMemory" : "2048Mi",
    "RequestCPU" : "1000m",
    "AutoInjectionPolicyEnabled" : true,
    "LimitCPU" : "4000m",
    "InitCNICConfiguration" : {
      "ExcludeNamespaces" : "kube-system,istio-system",
      "Enabled" : false
    },
    "SidecarInjectorWebhookAsYaml" : "{\"injectedAnnotations\":{\"test/istio-init\":{\"runtime/default2\",\"test/istio-proxy\":{\"runtime/default\"},\"replicaCount\":2,\"nodeSelector\":{\"beta.kubernetes.io/os\":\"linux\"}}}"
  },
  "IncludeIPRanges" : "192.168.0.0/16",
  "ExcludeIPRanges" : "172.16.0.0",
  "ExcludeOutboundPorts" : "80,81",
  "ExcludeInboundPorts" : "80,81",
  "Telemetry" : true,
  "Edition" : {
    "Name" : "Pro",
    "IstiodImageTag" : "v1.9.7.1-3-gb3flab3c9c-pro-aliyun",
    "ProxyImageTag" : "v1.9.7.1-3-gb3flab3c9c-pro-aliyun"
  },
  "ProtocolSupport" : {
    "MysqlFilterEnabled" : false,
    "RedisFilterEnabled" : false,
    "ThriftFilterEnabled" : false,
    "DubboFilterEnabled" : false
  },
  "OutboundTrafficPolicy" : "ALLOW_ANY",
  "Kiali" : {
    "Enabled" : false,
    "Url" : "http://1.2.**.*:20001"
  },
  "Tracing" : true,
  "WebAssemblyFilterDeployment" : {
    "Enabled" : false
  },
  "EnableLocalityLB" : true,
  "Audit" : {
    "Enabled" : true,
    "Project" : "audit-project",
    "AuditProjectStatus" : "audit_project_not_exist"
  }
}

```

```

    },
    "Proxy" : {
      "RequestMemory" : "128Mi",
      "ClusterDomain" : "cluster.domain",
      "LimitMemory" : "1024Mi",
      "RequestCPU" : "100m",
      "EnabledDNSProxying" : false,
      "LimitCPU" : "2000m",
      "AccessLogServiceEnabled" : false,
      "AccessLogServiceHost" : "0.0.0.0",
      "AccessLogServicePort" : 9999,
      "AccessLogFormat" : "{ \"authority_for\": \"%REQ(:AUTHORITY)%\", \"bytes_received\": \"%BYTES_RECEIVED%\", \"bytes_sent\": \"%BYTES_SENT%\", \"downstream_local_address\": \"%DOWNSTREAM_LOCAL_ADDRESS%\", \"downstream_remote_address\": \"%DOWNSTREAM_REMOTE_ADDRESS%\", \"duration\": \"%DURATION%\", \"istio_policy_status\": \"%DYNAMIC_METADATA(istio.mixer:status)%\", \"method\": \"%REQ(:METHOD)%\", \"path\": \"%REQ(X-ENVOY-ORIGINAL-PATH?:PATH)%\", \"protocol\": \"%PROTOCOL%\", \"request_id\": \"%REQ(X-REQUEST-ID)%\", \"requested_server_name\": \"%REQUESTED_SERVER_NAME%\", \"response_code\": \"%RESPONSE_CODE%\", \"response_flags\": \"%RESPONSE_FLAGS%\", \"route_name\": \"%ROUTE_NAME%\", \"start_time\": \"%START_TIME%\", \"trace_id\": \"%REQ(X-B3-TRACEID)%\", \"upstream_cluster\": \"%UPSTREAM_CLUSTER%\", \"upstream_host\": \"%UPSTREAM_HOST%\", \"upstream_local_address\": \"%UPSTREAM_LOCAL_ADDRESS%\", \"upstream_service_time\": \"%RESP(X-ENVOY-UPSTREAM-SERVICE-TIME)%\", \"upstream_transport_failure_reason\": \"%UPSTREAM_TRANSPORT_FAILURE_REASON%\", \"user_agent\": \"%REQ(USER-AGENT)%\", \"x_forwarded_for\": \"%REQ(X-FORWARDED-FOR)%\" }",
      "AccessLogFile" : "/dev/stdout"
    },
    "K8sNewAPIsSupport" : {
      "GatewayAPIEnabled" : false
    },
    "LocalityLB" : {
      "Enabled" : false
    },
    "ControlPlaneLogInfo" : {
      "Enabled" : false,
      "Project" : "mesh-log-cbeb85a09161b4a26ab73e0ac****"
    },
    "ExtraConfiguration" : {
      "IstioCRHistory" : {
        "EnableHistory" : false
      },
      "CRAggregationEnabled" : false,
      "MultiBuffer" : {
        "Enabled" : false,
        "PollDelay" : "0.02s"
      },
      "TerminationDrainDuration" : "5s",
      "Lifecycle" : {
        "postStart" : {
          "exec" : {
            "command" : "sleep 3s"
          },
          "httpGet" : {
            "port" : 80,
            "host" : "127.xx.xx.1",
            "scheme" : "http",
            "httpHeaders" : {
              "name" : "key",
              "value" : "value"
            }
          }
        },
        "tcpSocket" : {
          "port" : 888,
          "host" : "127.xx.xx.1"
        }
      }
    }
  }
}

```

```

        "host" : "127.xx.xx.1"
    },
    "preStop" : {
        "exec" : {
            "command" : "sleep 3s"
        },
        "httpGet" : {
            "port" : 80,
            "host" : "127.xx.xx.1",
            "scheme" : "http",
            "httpHeaders" : {
                "name" : "key",
                "value" : "value"
            }
        },
        "tcpSocket" : {
            "port" : 888,
            "host" : "127.xx.xx.1"
        }
    },
    "SidecarProxyInitResourceLimit" : {
        "ResourceCPULimit" : "2000m",
        "ResourceMemoryLimit" : "1024Mi"
    },
    "SidecarProxyInitResourceRequest" : {
        "ResourceCPURequest" : "10m",
        "ResourceMemoryRequest" : "10Mi"
    },
    "DiscoverySelectors" : "",
    "RateLimit" : {
        "EnableGlobalRateLimit" : false
    },
    "OPAScopeInjection" : {
        "OPAScopeInjected" : false
    }
}
},
"Clusters" : "[{\"caf089e56daba4c51a8906fe43ea1****\", \"c80f45444b3da447da60a911390c2****\"}],",
"ClusterSpec" : "standard",
"OwnerType" : "ackone",
"OwnerId" : "cc3e96f249d124eb38b72718ec5*****"
}
}

```

Error codes

For a list of error codes, visit the [API Error Center](#).

5.7. DescribeServiceMeshKubeconfig

Queries the content of the kubeconfig file of an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
PrivateIpAddress	Boolean	No	false	Specifies whether to query the kubeconfig file that is used for Internet access or internal network access.

Response parameters

Parameter	Type	Example	Description
Kubeconfig	String	apiVersion: v1 clusters: - cluster: server: https://47.110.xx.xx:6443 certificate-authority-data: LS0tLS1CRUdJTiBDRVJU SUZJQ0FUR50tLS0tCk1J SURUakNDQWphZ0F3S UJBZ0lVYzBQVYy82ejR1a HlxYkRRdnNsV1htSmpJ eFdNd0RRWUpLb1pJaH ZjTkFRRUwKQlFBd1BqR W5NQThHQT FVRUNoTU lhr0Z1WjNwb2lzVXdG QVlEVlFR50V3MWhiR2x pWVdKaElHTnNiM1ZrT VjNdwFUVlEVlFRREV3c HJkV0psY201bGRHVnp NQ0FYRFRjeU1EUXdOek ExTVRnd01Gb1Eekl3TL Rjd016TXdNRfV4Ck9EQ XdXakErTVNjd0R3WUR WUVFLRXdob1lXNW5lb Wh2ZFRBVUJnTlZCQW9 URFdGc2FXSmhZbUVn WTJ4dmRXUXgKRxpBU kNtIZCQU1UQ210MVlt VnlibVYwWlhNd2dnRW lNQTBHQ1NxR1NJYjNEU UVCQVfVQUE0SUJlE****	The content of the kubeconfig file of the cluster.
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DescribeServiceMeshKubeconfig
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&<Common request parameters>
```

Sample success responses

XML format

```

HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeServiceMeshKubeconfigResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
  <Kubeconfig>apiVersion: v1 clusters: - cluster:      server: https://47.110.xx.xx:6443      certific
ate-authority-data: LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSURUakNDQWphZ0F3SUJBZ01VYzBQVy82ejR1aHlxYk
RRdnNsVlhtSmpJeFdNd0RRWUpLb1pJaHZjTkFRRUwKQlFBd1BqRW5NQThHQTFVRUNoTUlhR0ZlWjNwb2IzVXdGQV1EVlFRS0V3MWhi
R2xpWVdKaElHTnNiM1ZrTVJNdwpFUV1EVlFRREV3cHJkV0psY201bGRHVnpNQ0FYRFRJeU1EUXdOekExTVRnd01Gb1lEek13T1RJd0
16TXdnRFRV4Ck9EQXdXakErTVNjd0R3WURWUWVFLRXdob1lXNW51bWh2ZFRBVUJnTlZCQW9URFdGc2FXSmhZbUVnWTJ4dmRXUXgKRXPB
UkJnTlZCQU1UQ210MVltVnlibVYwWlhNd2dnRWlNQTBHQ1NxR1NJYjNEUUVVCQVVFVQUE0SUJE****</Kubeconfig>
</DescribeServiceMeshKubeconfigResponse>

```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****",
  "Kubeconfig" : "apiVersion: v1 clusters: - cluster:      server: https://47.110.xx.xx:6443      certif
icate-authority-data: LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSURUakNDQWphZ0F3SUJBZ01VYzBQVy82ejR1aHlx
YkRRdnNsVlhtSmpJeFdNd0RRWUpLb1pJaHZjTkFRRUwKQlFBd1BqRW5NQThHQTFVRUNoTUlhR0ZlWjNwb2IzVXdGQV1EVlFRS0V3MWhi
R2xpWVdKaElHTnNiM1ZrTVJNdwpFUV1EVlFRREV3cHJkV0psY201bGRHVnpNQ0FYRFRJeU1EUXdOekExTVRnd01Gb1lEek13T1RJ
d016TXdnRFRV4Ck9EQXdXakErTVNjd0R3WURWUWVFLRXdob1lXNW51bWh2ZFRBVUJnTlZCQW9URFdGc2FXSmhZbUVnWTJ4dmRXUXgKRXPB
UkJnTlZCQU1UQ210MVltVnlibVYwWlhNd2dnRWlNQTBHQ1NxR1NJYjNEUUVVCQVVFVQUE0SUJE****"
}

```

Error codes

For a list of error codes, visit the [API Error Center](#).

5.8. RevokeKubeconfig

Revokes a kubeconfig file of an Alibaba Cloud Service Mesh (ASM) instance and generates a new kubeconfig file.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	RevokeKubeconfig	The operation that you want to perform. Set the value to RevokeKubeconfig .
ServiceMeshId	String	Yes	cf08a11940e8c46c48bc791fcd3****	The ID of the ASM instance for which you want to revoke a kubeconfig file.

Parameter	Type	Required	Example	Description
PrivateIpAddress	Boolean	No	false	Specifies whether to return the kubeconfig file for private access. <code>true</code> : returns the kubeconfig file for private access. <code>false</code> : returns the kubeconfig file for public access.

Response parameters

Parameter	Type	Example	Description
RequestId	String	7CF71C8B-79DD-150F-929E-267C51C5E311	The ID of the request.
Kubeconfig	String	<pre>apiVersion: v1 clusters: - cluster: server: https://121.**.**.6443 certificate- authority-data: ***** name: kubernetes contexts: - context: cluster: kubernetes user: "*****" name: ***** current-context: ***** kind: Config preferences: {} users: - name: "*****" user: client-certificate-data: ***** client-key-data: *****</pre>	The new kubeconfig file generated.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=RevokeKubeconfig
&ServiceMeshId=cf08a11940e8c46c48bc791fcd3****
&PrivateIpAddress=false
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<RevokeKubeconfigResponse>
  <RequestId>7CF71C8B-79DD-150F-929E-267C51C5E311</RequestId>
  <Kubeconfig>apiVersion: v1 clusters: - cluster:      server: https://121.**.**.6443      certific
ate-authority-data: *****  name: kubernetes contexts: - context:      cluster: kubernetes      user: "*"
*****  name: ***** current-context: ***** kind: Config preferences: {} users: - name: "*****"  user:
client-certificate-data: *****      client-key-data: *****</Kubeconfig>
</RevokeKubeconfigResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "7CF71C8B-79DD-150F-929E-267C51C5E311",
  "Kubeconfig" : "apiVersion: v1 clusters: - cluster:      server: https://121.**.*.**:6443      certif
icate-authority-data: ***** name: kubernetes contexts: - context:      cluster: kubernetes      user:
\\\"*****\\\" name: ***** current-context: ***** kind: Config preferences: {} users: - name: \\\"*****\\\"
user:      client-certificate-data: *****      client-key-data: *****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

5.9. DescribeServiceMeshAdditionalStatus

Queries the check results of an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeServiceMeshAdditionalStatus	The operation that you want to perform. Set the value to DescribeServiceMeshAdditionalStatus .
ServiceMeshId	String	Yes	ca04bc38979214bf2882be79d39b4****	The ID of the ASM instance.
CheckMode	String	No	full	The check mode of the ASM instance. Valid values: normal : checks the Server Load Balancer (SLB) instances created for exposing the API server and Istio Pilot, audit logs, and the Logtail installation for clusters on the data plane. full : checks control plane logs, access logs, security groups, and the elastic IP addresses (EIPs) of the API server in addition to the check items of the normal mode.

Response parameters

Parameter	Type	Example	Description
RequestId	String	11fd0027-c27e-41bb-a565-75583054****	The ID of the request.

Parameter	Type	Example	Description
ClusterStatus	Object		The status of the cluster.
ApiServerLoadBalancerStatus	Object		The check results of the SLB instances created for exposing the API server.
SLBExistStatus	String	exist	The check result of the SLB instance. Valid values: <code>exist</code> : The SLB instance exists. <code>not_exist</code> : The SLB instance does not exist. <code>conflict</code> : Conflicts are detected. <code>failed</code> : The check fails. <code>time_out</code> : The check times out.
SLBBackEndServerNumStatus	String	num_exact	The check result of the number of SLB instances created for exposing the API server. Valid values: <code>too_much</code> : An excessive number of SLB instances are created. <code>num_exact</code> : A proper number of SLB instances are created. <code>too_little</code> : The number of SLB instances falls short.
PilotLoadBalancerStatus	Object		The check results of the SLB instances created for exposing Istio Pilot.
SLBExistStatus	String	exist	The check result of the SLB instance. Valid values: <code>exist</code> : The SLB instance exists. <code>not_exist</code> : The SLB instance does not exist. <code>conflict</code> : Conflicts are detected. <code>failed</code> : The check fails. <code>time_out</code> : The check times out.
SLBBackEndServerNumStatus	String	num_exact	The check result of the number of SLB instances created for exposing Istio Pilot. Valid values: <code>too_much</code> : An excessive number of SLB instances are created. <code>num_exact</code> : A proper number of SLB instances are created. <code>too_little</code> : The number of SLB instances falls short.
AuditProjectStatus	String	exist	The check result of the audit logs. Valid values: <code>exist</code> : The audit logs exist. <code>not_exist</code> : The audit logs do not exist.

Parameter	Type	Example	Description
LogtailStatusRecord	Map		The check results of the Logtail installation for clusters on the data plane.
	Object		The check result of the Logtail installation for the cluster.
ClusterId	String	caeac85a793c94afbbb0a4bb20320****	The ID of the cluster on the data plane.
LogtailDetailStatus	String	exist	Indicates whether Logtail is installed for the cluster. Valid values: - exist: Logtail is installed. - not exist: Logtail is not installed.
AccessLogDashboards	Array		The Log Service dashboard of the audit logs on the data plane.
Title	String	audit-c186a6d9641a24098b549****	The name of the dashboard.
Url	String	https://sls.console.aliyun.com/lognext/project/audit-c186a6d9641a24098b549xxxxxxxxxx/dashboard/mesh	The URL of the dashboard.
ControlPlaneProjectStatus	String	exist	The check result of the control plane logs. Valid values: - exist: The control plane logs exist. - not_exist: The control plane logs do not exist. - failed: The check fails. - time_out: The check times out.
SgStatus	String	reused	Indicates whether the security group is reused. Valid values: - reused: The security group is reused. - not_reused: The security group is not reused. - failed: The check fails. - time_out: The check times out.

Parameter	Type	Example	Description
ApiServerEIPStatus	String	exist	The check result of the EIPs associated with the API server. Valid values: <code>exist</code> : The EIP exists. <code>not_exist</code> : The EIP does not exist. <code>failed</code> : The check fails. <code>time_out</code> : The check times out.
AccessLogProjectStatus	String	exist	The check result of the access logs. Valid values: <code>exist</code> : The access logs exist. <code>not_exist</code> : The access logs do not exist. <code>failed</code> : The check fails. <code>time_out</code> : The check times out.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeServiceMeshAdditionalStatus
&ServiceMeshId=ca04bc38979214bf2882be79d39b4****
&CheckMode=full
&<Common request parameters>
```

Sample success responses

`XML` format

```

HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeServiceMeshAdditionalStatusResponse>
  <RequestId>11fd0027-c27e-41bb-a565-75583054****</RequestId>
  <ClusterStatus>
    <ApiServerLoadBalancerStatus>
      <SLBExistStatus>exist</SLBExistStatus>
      <SLBBackEndServerNumStatus>num_exact</SLBBackEndServerNumStatus>
    </ApiServerLoadBalancerStatus>
    <PilotLoadBalancerStatus>
      <SLBExistStatus>exist</SLBExistStatus>
      <SLBBackEndServerNumStatus>num_exact</SLBBackEndServerNumStatus>
    </PilotLoadBalancerStatus>
    <AuditProjectStatus>exist</AuditProjectStatus>
    <LogtailStatusRecord>
      <key>
        <ClusterId>c186a6d9641a24098b549xxxxxxxxxxxx</ClusterId>
        <LogtailDetailStatus>exist</LogtailDetailStatus>
        <AccessLogDashboards>
          <Title>audit-c186a6d9641a24098b549****</Title>
          <Url>https://sls.console.aliyun.com/lognext/project/audit-c186a6d9641a24098b549xxx
xxxxxxxxxx/dashboard/mesh</Url>
        </AccessLogDashboards>
      </key>
    </LogtailStatusRecord>
    <ControlPlaneProjectStatus>exist</ControlPlaneProjectStatus>
    <SgStatus>reused</SgStatus>
    <ApiServerEIPStatus>exist</ApiServerEIPStatus>
    <AccessLogProjectStatus>exist</AccessLogProjectStatus>
  </ClusterStatus>
</DescribeServiceMeshAdditionalStatusResponse>

```

JSON **format**

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "11fd0027-c27e-41bb-a565-75583054****",
  "ClusterStatus" : {
    "ApiServerLoadBalancerStatus" : {
      "SLBExistStatus" : "exist",
      "SLBBackEndServerNumStatus" : "num_exact"
    },
    "PilotLoadBalancerStatus" : {
      "SLBExistStatus" : "exist",
      "SLBBackEndServerNumStatus" : "num_exact"
    },
    "AuditProjectStatus" : "exist",
    "LogtailStatusRecord" : {
      "key" : {
        "ClusterId" : "c186a6d9641a24098b549xxxxxxxxxxxx",
        "LogtailDetailStatus" : "exist",
        "AccessLogDashboards" : [ {
          "Title" : "audit-c186a6d9641a24098b549****",
          "Url" : "https://sls.console.aliyun.com/lognext/project/audit-c186a6d9641a24098b549xxxxxxxxxxx/dashboard/mesh"
        } ]
      }
    },
    "ControlPlaneProjectStatus" : "exist",
    "SgStatus" : "reused",
    "ApiServerEIPStatus" : "exist",
    "AccessLogProjectStatus" : "exist"
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

5.10. DescribeVersions

Queries available Alibaba Cloud Service Mesh (ASM) versions when you create an ASM instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeVersions	The operation that you want to perform. Set the value to DescribeVersions .

Response parameters

Parameter	Type	Example	Description
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.
VersionInfo	Array of VersionInfo		The available ASM versions.
Edition	String	Default	The edition of the ASM instance. Valid values: <code>Default</code> : Standard Edition <code>Pro</code> : Commercial Edition (Professional Edition)
Versions	Array of String	v1.10.5.40-g2adf45be-aliyun	The ASM versions available for the ASM instance of the current edition.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeVersions
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeVersionsResponse>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
  <VersionInfo>
    <Edition>Default</Edition>
    <Versions>v1.10.5.40-g2adf45be-aliyun</Versions>
  </VersionInfo>
</DescribeVersionsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****",
  "VersionInfo" : {
    "Edition" : "Default",
    "Versions" : "v1.10.5.40-g2adf45be-aliyun"
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

6. Mesh Management

6.1. DescribeNodesInstanceType

Queries the instance types of nodes on the data plane and whether the instance types support Multi-Buffer acceleration.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeNodesInstanceType	The operation that you want to perform. Set the value to DescribeNodesInstanceType .
ServiceMeshId	String	Yes	cb8963379255149cb98c8686f274x****	The ID of the Alibaba Cloud Service Mesh (ASM) instance.

Response parameters

Parameter	Type	Example	Description
InstanceTypes	Array of instanceType		The instance types of the nodes.
NodeType	String	ecs.g7.xlarge	The instance type of the node.
MultiBufferEnabled	Boolean	true	Indicates whether the instance type supports Multi-Buffer acceleration. Valid values: <code>true</code>: The instance type supports Multi-Buffer acceleration. <code>false</code>: The instance type does not support Multi-Buffer acceleration.
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeNodesInstanceType
&ServiceMeshId=cb8963379255149cb98c8686f274x****
&Common request parameters
```

Sample success responses

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "InstanceTypes" : [ {
    "NodeType" : "ecs.g7.xlarge",
    "MultiBufferEnabled" : true
  } ],
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****"
}
```

Error codes

Http status code	Error code	Error message	Description
500	ERR500	An internal server error occurred.	The error message returned because an internal server error occurred.

For a list of error codes, visit the [API Error Center](#).

6.2. DescribeCCMVersion

Queries the versions of the Cloud Controller Manager (CCM) component.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeCCMVersion	The operation that you want to perform. Set the value to DescribeCCMVersion .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the Alibaba Cloud Service Mesh (ASM) instance.

Response parameters

Parameter	Type	Example	Description
CCMVersions	Map		The versions of the CCM component in all clusters on the data plane.
	Object		The version information about the CCM component.

Parameter	Type	Example	Description
QueryState	String	time_out	The status of the query. Valid values: <code>time_out</code> : The query times out. <code>failed</code> : The query fails. <code>Empty string</code> : The query is successful.
Version	String	v2.0.1	The version of the CCM component.
SLBGracefulDrainsupport	Boolean	true	Indicates whether the CCM component supports graceful disconnection of the Server Load Balancer (SLB) instance. Valid values: <code>true</code> : The CCM component supports graceful disconnection of the SLB instance. <code>false</code> : The CCM component does not support graceful disconnection of the SLB instance.
ClusterId	String	cfbb81b9b51a44b299349xxxxxxxxxxx	The ID of the cluster instance on the data plane.
Message	String	timeout error	The additional information that is returned when the query fails. This parameter is empty if the query is successful.
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeCCMVersion
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&Common request parameters
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeCCMVersionResponse>
  <CCMVersions>
    <key>
      <QueryState>time_out</QueryState>
      <Version>v2.0.1</Version>
      <SLBGracefulDrainSupport>true</SLBGracefulDrainSupport>
      <ClusterId>cfbb81b9b51a44b299349xxxxxxxxxxxx</ClusterId>
      <Message>timeout error</Message>
    </key>
  </CCMVersions>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
</DescribeCCMVersionResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "CCMVersions" : {
    "key" : {
      "QueryState" : "time_out",
      "Version" : "v2.0.1",
      "SLBGracefulDrainSupport" : true,
      "ClusterId" : "cfbb81b9b51a44b299349xxxxxxxxxxxx",
      "Message" : "timeout error"
    }
  },
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****"
}
```

Error codes

Http status code	Error code	Error message	Description
503	ERR404	Not found	The error message returned because no data is found.

For a list of error codes, visit the [API Error Center](#).

6.3. ReActivateAudit

Recreates a project that is used to store audit logs.

Before you call this operation, make sure that you understand the billing methods of Log Service. For more information, visit the [pricing page](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ReActivateAudit	The operation that you want to perform. Set the value to ReActivateAudit .
ServiceMeshId	String	Yes	c5bf9eb05c4424b89985d6536a809****	The ID of the Alibaba Cloud Service Mesh (ASM) instance.
EnableAudit	Boolean	No	true	Specifies whether to recreate a project that is used to store audit logs. Valid values: - true: recreates a project. - false: does not recreate a project.

Response parameters

Parameter	Type	Example	Description
RequestId	String	17163CE9-CE4B-1B87-9185-1A1AD7E7****	The ID of the request.
Data	String	k8s-log-c0703599f695f4b8fa1c6492a33af****	The name of the project that is used to store audit logs.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ReActivateAudit
&ServiceMeshId=c5bf9eb05c4424b89985d6536a809****
&EnableAudit=true
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ReActivateAuditResponse>
  <RequestId>17163CE9-CE4B-1B87-9185-1A1AD7E7****</RequestId>
  <Data>k8s-log-c0703599f695f4b8fa1c6492a33af****</Data>
</ReActivateAuditResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "17163CE9-CE4B-1B87-9185-1A1AD7E7****",
  "Data" : "k8s-log-c0703599f695f4b8fa1c6492a33af****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

6.4. RunDiagnosis

Diagnoses an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	RunDiagnosis	The operation that you want to perform. Set the value to RunDiagnosis .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	777434B6-D296-5097-AC09-1DFFDDDD0XXXX	The ID of the request.
Result	String	done	The status of the diagnostics. Valid values: failed : The diagnostics of the ASM instance fails. done : The diagnostics of the ASM instance is complete. inprogress : The ASM instance is being diagnosed.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=RunDiagnosis
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<RunDiagnosisResponse>
  <RequestId>777434B6-D296-5097-AC09-1DFFDDDD0XXXX</RequestId>
  <Result>done</Result>
</RunDiagnosisResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "777434B6-D296-5097-AC09-1DFFDDDD0XXXX",
  "Result" : "done"
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	ERR404	Not found	The error message returned because the requested resource does not exist.

For a list of error codes, visit the [API Error Center](#).

6.5. GetCaCert

Obtains a certificate issued by a certificate authority (CA).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetCaCert	The operation that you want to perform. Set the value to GetCaCert .
ServiceMeshId	String	Yes	c7894c929677643a5bfe1a732d778a****	The ID of the Alibaba Cloud Service Mesh (ASM) instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	E0496204-7586-5B4C-B364-2361CC0ED****	The ID of the request.
CaCert	String	-----BEGIN CERTIFICATE----- \\nMIIFszCCA5ugAwIBAgIDM/1OMA0GCSqGSIb3DQEBCwUAME427zht4HDLcCEW****-----END CERTIFICATE-----\\n	The Base64-encoded content of the CA certificate.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetCaCert
&ServiceMeshId=c7894c929677643a5bfe1a732d778a****
&Common request parameters
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetCaCertResponse>
  <RequestId>E0496204-7586-5B4C-B364-2361CC0ED****</RequestId>
  <CaCert>-----BEGIN CERTIFICATE-----\nMIIFszCCA5ugAwIBAgIDM/1OMA0GCSqGSIb3DQEBCwUAME427zhT4HDLcCEW*
  ****-----END CERTIFICATE-----\n</CaCert>
</GetCaCertResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "E0496204-7586-5B4C-B364-2361CC0ED****",
  "CaCert" : "-----BEGIN CERTIFICATE-----\nMIIFszCCA5ugAwIBAgIDM/1OMA0GCSqGSIb3DQEBCwUAME427zhT4HDLcCEW****-----END CERTIFICATE-----\n"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

7. Permission management

7.1. GrantUserPermissions

Modifies role-based access control (RBAC) permissions.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GrantUserPermissions	The operation that you want to perform. Set the value to GrantUserPermissions .
SubAccountUserId	String	Yes	27852573609480***	The ID of the RAM user or RAM role.
Permissions	String	No	[[{"IsCustom":true,"RoleName":"istio-ops","Cluster":"c57b848115458460583a4260cb713****","RoleType":"custom","IsRamRole":false}, {"IsCustom":true,"RoleName":"istio-ops","Cluster":"c4ec191f4e12145c09286ea3e2b8f****","RoleType":"custom","IsRamRole":false}]]	The permissions that are granted to an entity. The content is a string that consists of JSON arrays. You must specify all permissions that you want to grant to an entity. You can add or remove permissions by modifying the content. Field definition of the sample code: IsCustom : a parameter that is required by the system. Set the value to <code>true</code>. Cluster : the ID of the Alibaba Cloud Service Mesh (ASM) instance. RoleName : the name of the permissions. Valid values: <code>istio-admin</code>, <code>istio-ops</code>, and <code>istio-readonly</code>. A value of <code>istio-admin</code> indicates the permissions of ASM administrators. A value of <code>istio-ops</code> indicates the permissions of ASM restricted users. A value of <code>istio-readonly</code> indicates the read-only permissions. IsRamRole : the entity to which you want to grant the permissions. To grant the permissions to a RAM role, set the value to <code>true</code>. Otherwise, set the value to <code>false</code>.

Response parameters

Parameter	Type	Example	Description
RequestId	String	5A7C9E37-C171-584F-9A99-869B48C4****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GrantUserPermissions
&SubAccountUserId=27852573609480****
&Permissions=[{"IsCustom":true,"RoleName":"istio-ops","Cluster":"c57b848115458460583a4260cb713****","RoleType":"custom","IsRamRole":false}, {"IsCustom":true,"RoleName":"istio-ops","Cluster":"c4ec191f4e12145c09286ea3e2b8f****","RoleType":"custom","IsRamRole":false}]
&<Common request parameters>
```

Sample responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GrantUserPermissionsResponse>
  <RequestId>5A7C9E37-C171-584F-9A99-869B48C4****</RequestId>
</GrantUserPermissionsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "5A7C9E37-C171-584F-9A99-869B48C4****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

7.2. DescribeUserPermissions

SubAccountUserId	String		sub_account	
------------------	--------	--	-------------	--

Permissions	Array		
IsOwner	String	true	
IsRamRole	String	true	
OwnerId	String	2	
ParentId	String	1	
ResourceId	String	c08ba3fd1e6484b0f8cc1ad8fe10d****	

ResourceType	String	cluster	
RoleName	String	istio-admin	
RoleType	String	custom	
RequestId	String	b929cfc6-7735-489a-9c96-670c4cf3****	

```
http(s)://[Endpoint]/? Action=DescribeUserPermissions
```

```
<RequestId>b929cfc6-7735-489a-9c96-670c4cf3****</RequestId>
<Permissions>
  <ParentId>1</ParentId>
  <RoleName>istio-admin</RoleName>
  <OwnerId>2</OwnerId>
  <ResourceId>c08ba3fd1e6484b0f8cc1ad8fe10d****</ResourceId>
  <RoleType>custom</RoleType>
  <ResourceType>cluster</ResourceType>
  <IsOwner>true</IsOwner>
  <IsRamRole>true</IsRamRole>
</Permissions>
```

```
{
  "RequestId": "b929cfc6-7735-489a-9c96-670c4cf3****",
  "Permissions": {
    "ParentId": 1,
    "RoleName": "istio-admin",
    "OwnerId": 2,
    "ResourceId": "c08ba3fd1e6484b0f8cc1ad8fe10d****",
    "RoleType": "custom",
    "ResourceType": "cluster",
    "IsOwner": true,
    "IsRamRole": true
  }
}
```

7.3. DescribeUsersWithPermissions

Queries the IDs of all RAM users or RAM roles to which a Role-based Access Control (RBAC) role is assigned.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
-----------	------	----------	---------	-------------

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeUsersWithPermissions	The operation that you want to perform. Set the value to DescribeUsersWithPermissions .
UserType	String	Yes	SubUser	Specifies whether to query the IDs of all RAM users or RAM roles to which an RBAC role is assigned. Valid values: SubUser : Query the IDs of all RAM users to which an RBAC role is assigned. RamRole : Query the IDs of all RAM roles to which an RBAC role is assigned.

Response parameters

Parameter	Type	Example	Description
RequestId	String	12B94024-C241-13CD-BA44-6106DF1****	The ID of the request.
UIDs	Array of String	2940213405997****	The IDs of the RAM users or RAM roles to which an RBAC role is assigned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeUsersWithPermissions
&UserType=SubUser
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeUsersWithPermissionsResponse>
  <RequestId>12B94024-C241-13CD-BA44-6106DF1****</RequestId>
  <UIDs>2940213405997****</UIDs>
</DescribeUsersWithPermissionsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "12B94024-C241-13CD-BA44-6106DF1****",
  "UIDs" : "2940213405997****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8. Mesh Resources

8.1. UpdateMeshCRAggregation

Specifies whether to enable the Kubernetes API to access Istio resources on the data plane.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateMeshCRAggregation	The operation that you want to perform. Set the value to UpdateMeshCRAggregation .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the Alibaba Cloud Service Mesh (ASM) instance.
Enabled	Boolean	No	true	Specifies whether to enable the Kubernetes API to access Istio resources in the ASM instance. Valid values: <code>true</code>: specifies to enable the Kubernetes API to access Istio resources in the ASM instance. <code>false</code>: specifies not to enable the Kubernetes API to access Istio resources in the ASM instance.
CPURequirement	String	No	1	The number of CPU cores that are requested by the components installed in the Container Service for Kubernetes (ACK) cluster on the data plane if you enable the Kubernetes API to access Istio resources in the ASM instance. You can represent the parameter value in the standard representation form of CPUs in Kubernetes.
MemoryRequirement	String	No	500Mi	The size of the memory that is requested by the components installed in the ACK cluster on the data plane if you enable the Kubernetes API to access Istio resources in the ASM instance. You can represent the parameter value in the standard representation form of memory in Kubernetes. 1 Mi equals 1,024 KB.

Parameter	Type	Required	Example	Description
CPULimit	String	No	1	The maximum number of CPU cores that are available for the components installed in the ACK cluster on the data plane if you enable the Kubernetes API to access Istio resources in the ASM instance. You can represent the parameter value in the standard representation form of CPUs in Kubernetes.
MemoryLimit	String	No	500Mi	The maximum size of the memory that is available for the components installed in the ACK cluster on the data plane if you enable the Kubernetes API to access Istio resources in the ASM instance. You can represent the parameter value in the standard representation form of memory in Kubernetes. 1 Mi equals 1,024 KB.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateMeshCRAggregation
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&Enabled=true
&CPURequirement=1
&MemoryRequirement=500Mi
&CPULimit=1
&MemoryLimit=500Mi
&<Common request parameters>
```

Sample responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateMeshCRAggregationResponse>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
</UpdateMeshCRAggregationResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.2. DescribeVSwitches

Queries the vSwitches that are deployed in a specified virtual private cloud (VPC) in a region.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeVSwitches	The operation that you want to perform. Set the value to DescribeVSwitches .
RegionId	String	Yes	cn-hangzhou	The region ID.
VpcId	String	Yes	vpc-bp17gig441u0msmd78****	VPC ID

Response parameters

Parameter	Type	Example	Description
TotalCount	Integer	10	The total number of entries returned. By default, this parameter is not returned.
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.
NextToken	String	""	The token that marks the end of the current returned page. If this parameter is empty, it indicates that you have retrieved all the data.
MaxResults	Integer	10	The maximum number of entries returned on a single page.
VSwitches	Array of VSwitches		The list of the queried vSwitches.
VpcId	String	vpc-bp17gig441u0msmd6***	The ID of the VPC in which the vSwitch is deployed.
VSwitchId	String	vsw-bp1g24p9no0iqir46****	The ID of the vSwitch.

Parameter	Type	Example	Description
Status	String	Available	The status of the vSwitch. Valid values: - Pending : The vSwitch is being configured. - Available : The vSwitch is available for use.
IsDefault	Boolean	false	Indicates whether the vSwitch is the default vSwitch. Valid values: - true : yes - false : no
VSwitchName	String	vsw-test	The name of the vSwitch.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeVSwitches
&RegionId=cn-hangzhou
&VpcId=vpc-bp17gig441u0msmd78****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeVSwitchesResponse>
  <TotalCount>10</TotalCount>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
  <NextToken>""</NextToken>
  <MaxResults>10</MaxResults>
  <VSwitches>
    <VpcId>vpc-bp17gig441u0msmd6****</VpcId>
    <VSwitchId>vsw-bp1g24p9no0iqir46****</VSwitchId>
    <Status>Available</Status>
    <IsDefault>false</IsDefault>
    <VSwitchName>vsw-test</VSwitchName>
  </VSwitches>
</DescribeVSwitchesResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "TotalCount" : 10,
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****",
  "NextToken" : "",
  "MaxResults" : 10,
  "VSwitches" : {
    "VpcId" : "vpc-bp17gig441u0msmd6****",
    "VSwitchId" : "vsw-bp1g24p9no0iqir46****",
    "Status" : "Available",
    "IsDefault" : false,
    "VSwitchName" : "vsw-test"
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.3. DescribeVpcs

Queries the virtual private clouds (VPCs) that are available in a specified region.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeVpcs	The operation that you want to perform. Set the value to DescribeVpcs .
RegionId	String	Yes	cn-hangzhou	The region ID.

Response parameters

Parameter	Type	Example	Description
TotalCount	Integer	10	The total number of entries returned. By default, this parameter is not returned.
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.
NextToken	String	""	The token that marks the end of the current returned page. If this parameter is empty, it indicates that you have retrieved all the data.

Parameter	Type	Example	Description
MaxResults	Integer	10	The maximum number of entries returned on a single page.
Vpcs	Array of Vpcs		The list of VPCs that are available in the specified region.
VpcId	String	vpc-bp1qkf2o3xmqc2519** **	The ID of the VPC.
VpcName	String	vpc-test	The name of the VPC.
Status	String	Available	The status of the VPC. Valid values: <code>Pending</code> : The VPC is being configured. <code>Available</code> : The VPC is available for use.
IsDefault	Boolean	false	Indicates whether the VPC is the default VPC in the specified region. Valid values: <code>true</code> : yes <code>false</code> : no

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeVpcs
&RegionId=cn-hangzhou
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeVpcsResponse>
  <TotalCount>10</TotalCount>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
  <NextToken>""</NextToken>
  <MaxResults>10</MaxResults>
  <Vpcs>
    <VpcId>vpc-bp1qkf2o3xmqc2519****</VpcId>
    <VpcName>vpc-test</VpcName>
    <Status>Available</Status>
    <IsDefault>>false</IsDefault>
  </Vpcs>
</DescribeVpcsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "TotalCount" : 10,
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****",
  "NextToken" : "\"\\\"",
  "MaxResults" : 10,
  "Vpcs" : {
    "VpcId" : "vpc-bp1qkf2o3xmqc2519****",
    "VpcName" : "vpc-test",
    "Status" : "Available",
    "IsDefault" : false
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.4. DescribeCens

Queries the Kubernetes clusters that are deployed in different virtual private clouds (VPCs) and are not connected by using a Cloud Enterprise Network (CEN) instance among all the Kubernetes clusters that are added to an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeCens	The operation that you want to perform. Set the value to DescribeCens .
ServiceMeshId	String	No	ce134b0727aa2492db69f6c3880e1****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.
Clusters	Array of String	c584d805c7bd442b8bac421f9849f*****	The IDs of the queried Kubernetes clusters.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeCens
&ServiceMeshId=ce134b0727aa2492db69f6c3880e1****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeCensResponse>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
  <Clusters>c584d805c7bd442b8bac421f9849f****</Clusters>
</DescribeCensResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****",
  "Clusters" : "c584d805c7bd442b8bac421f9849f****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.5. DescribeCrTemplates

Queries the common YAML templates for a specified type of Istio resource in Alibaba Cloud Service Mesh (ASM).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeCrTemplate s	The operation that you want to perform. Set the value to DescribeCrTemplates .
IstioVersion	String	Yes	v1.9.7.31- g24cdcb43-aliyun	The Istio version used in ASM.

Parameter	Type	Required	Example	Description
Kind	String	Yes	VirtualService	The type of Istio resource whose common YAML templates you want to query. Valid values: • AuthorizationPolicy • RequestAuthentication • PeerAuthentication • WorkloadGroup • WorkloadEntry • Sidecar • EnvoyFilter • ServiceEntry • Gateway • DestinationRule • VirtualService

Response parameters

Parameter	Type	Example	Description
RequestId	String	74E97AE2-2900-55C1-A069-C3C1EA*****	The ID of the request.
Templates	Array of Templates		The common YAML templates for the specified type of Istio resource.
ChineseName	String	HTTP基础路由	The Chinese name of the YAML template.
EnglishName	String	HTTP basic routing	The English name of the YAML template.

Parameter	Type	Example	Description
Yaml	String	<pre> apiVersion: networking.istio.io/v1beta1\nkind: VirtualService\nmetadata:\n name: reviews- route # Name for this VirtualService.\nspec:\n hosts:\n - reviews.prod.svc.cluster.local # Service that this VirtualService belongs to. \n http:\n - name: \"reviews- route\" # Name for the route.\n route:\n - destination: # Uniquely identifies the instances of a service to which all traffic should be forwarded to.\n host: reviews.prod.svc.cluster.local # The name of a service from the service registry or ServiceEntry.\n port:\n number: 8080" </pre>	The content in the YAML template.

Examples

Sample requests

```

http(s)://[Endpoint]/?Action=DescribeCrTemplates
&IstioVersion=v1.9.7.31-g24cdcb43-aliyun
&Kind=VirtualService
&<Common request parameters>

```

Sample success responses

XML format

```

HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeCrTemplatesResponse>
  <RequestId>74E97AE2-2900-55C1-A069-C3C1EA*****</RequestId>
  <Templates>
    <ChineseName>HTTP基础路由</ChineseName>
    <EnglishName>HTTP basic routing</EnglishName>
    <Yaml>apiVersion: networking.istio.io/v1beta1\nkind: VirtualService\nmetadata:\n name: review
s-route # Name for this VirtualService.\nspec:\n hosts:\n - reviews.prod.svc.cluster.local # Service
that this VirtualService belongs to. \n http:\n - name: \"reviews-route\" # Name for the route.\n
route:\n - destination: # Uniquely identifies the instances of a service to which all traffic should
be forwarded to.\n host: reviews.prod.svc.cluster.local # The name of a service from the serv
ice registry or ServiceEntry.\n port:\n number: 8080"</Yaml>
  </Templates>
</DescribeCrTemplatesResponse>

```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "74E97AE2-2900-55C1-A069-C3C1EA*****",
  "Templates" : {
    "ChineseName" : "HTTP基础路由",
    "EnglishName" : "HTTP basic routing",
    "Yaml" : "apiVersion: networking.istio.io/v1beta1\\nkind: VirtualService\\nmetadata:\\n  name: reviews-route # Name for this VirtualService.\\nspec:\\n  hosts:\\n    - reviews.prod.svc.cluster.local # Service that this VirtualService belongs to.\\n  http:\\n    - name: \\\"reviews-route\\\" # Name for the route.\\n      route:\\n        - destination: # Uniquely identifies the instances of a service to which all traffic should be forwarded to.\\n          host: reviews.prod.svc.cluster.local # The name of a service from the service registry or ServiceEntry.\\n          port:\\n            number: 8080\\n\"
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	ERR404	Not found	The error message returned because the requested resource does not exist.

For a list of error codes, visit the [API Error Center](#).

8.6. DescribeEipResources

Queries elastic IP addresses (EIPs).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeEipResources	The operation that you want to perform. Set the value to DescribeEipResources .
ServiceMeshId	String	No	cb8963379255149cb98c8686f274x****	The ID of the ASM instance.
PageNum	Integer	No	1	The number of the page to return. Default value: 1.
PageSize	Integer	No	50	The number of entries to return on each page.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.
EipList	Array of eipList		The EIPs.
IpAddress	String	120.xx.xx.112	The IP address of the EIP.
Status	String	InUse	The status of the EIP. Valid values: <code>Associating</code> : The EIP is being associated with a resource. <code>Unassociating</code> : The EIP is being disassociated from a resource. <code>InUse</code> : The EIP is associated with a resource. <code>Available</code> : The EIP is available.
AllocationId	String	eip-2zeerraiwb7ujxscd****	The ID of the EIP.
InstanceType	String	SlbInstance	The type of the resource that is associated with the EIP. Valid values: <code>EcsInstance</code> : an ECS instance in a VPC <code>SlbInstance</code> : a Server Load Balancer (SLB) instance in a VPC <code>Nat</code> : a NAT gateway <code>HaVip</code> : a high-availability virtual IP address (HAVIP) <code>NetworkInterface</code> : a secondary elastic network interface (ENI) Default value: <code>EcsInstance</code> .
PageResult	Object		The pagination information.
TotalCount	Integer	10	The number of entries returned.
PageNumber	Integer	1	The page number of the returned page.
PageSize	Integer	10	The number of entries returned per page.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeEipResources
&ServiceMeshId=cb8963379255149cb98c8686f274x****
&PageNum=1
&PageSize=50
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeEipResourcesResponse>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
  <EipList>
    <IpAddress>120.xx.xx.112</IpAddress>
    <Status>InUse</Status>
    <AllocationId>eip-2zeerraiwb7ujxscd****</AllocationId>
    <InstanceType>SlbInstance</InstanceType>
  </EipList>
  <PageResult>
    <TotalCount>10</TotalCount>
    <PageNumber>1</PageNumber>
    <PageSize>10</PageSize>
  </PageResult>
</DescribeEipResourcesResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****",
  "EipList" : {
    "IpAddress" : "120.xx.xx.112",
    "Status" : "InUse",
    "AllocationId" : "eip-2zeerraiwb7ujxscd****",
    "InstanceType" : "SlbInstance"
  },
  "PageResult" : {
    "TotalCount" : 10,
    "PageNumber" : 1,
    "PageSize" : 10
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	ERR500	An internal server error occurred.	The error message returned because a backend service error has occurred.

For a list of error codes, visit the [API Error Center](#).

8.7. ModifyApiServerEipResource

Disassociates an elastic IP address (EIP) from an API server or associates an EIP with an API server.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyApiServerEipResource	The operation that you want to perform. Set the value to ModifyApiServerEipResource .
ServiceMeshId	String	No	cb8963379255149cb98c8686f274x****	The ID of the Alibaba Cloud Service Mesh (ASM) instance.
Operation	String	No	BindEip	The type of the operation. Valid values: <code>UnBindEip</code> : disassociates an EIP from the API server. <code>BindEip</code> : associates an EIP with the API server.
ApiServerEipId	String	No	eip-bp1adu9jegmxnaoq****	The ID of the EIP.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=ModifyApiServerEipResource
&ServiceMeshId=cb8963379255149cb98c8686f274x****
&Operation=BindEip
&ApiServerEipId=eip-bp1adu9jegmxnaoq****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ModifyApiServerEipResourceResponse>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
</ModifyApiServerEipResourceResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****"
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	ERR500	An internal server error occurred.	The error message returned because a backend service error has occurred.

For a list of error codes, visit the [API Error Center](#).

9.Sidecar Management

9.1. DescribeServiceMeshProxyStatus

Queries the status of proxies on the data plane of an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeServiceMeshProxyStatus	The operation that you want to perform. Set the value to DescribeServiceMeshProxyStatus .
ServiceMeshId	String	Yes	ca04bc38979214bf2882be79d39b4****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
Message	String	success	The returned message.
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.
ProxyStatus	Array of ProxyStatus		The information about the status of the proxies on the data plane.
ProxyVersion	String	1.9.7	The version number of the proxy on the data plane.
ClusterSynced	String	SYNCED	The update status of the proxy. Valid values: SYNCED : The status of the proxy is updated. NOT_SENT : The status of the proxy is not updated. STALE (Never Acknowledged) : Istiod has sent multiple requests to the Envoy proxy to update the status of the proxy but receives no response. STALE : Istiod has sent a request to the Envoy proxy to update the status of the proxy but receives no response.
EndpointPercent	String	1	The percentage of the updated endpoints.

Parameter	Type	Example	Description
ListenerSynced	String	SYNCED	The update status of the listener. Valid values: <code>SYNCED</code> : The status of the listener is updated. <code>NOT_SENT</code> : The status of the listener is not updated. <code>STALE (Never Acknowledged)</code> : Istiod has sent multiple requests to the Envoy proxy to update the status of the listener but receives no response. <code>STALE</code> : Istiod has sent a request to the Envoy proxy to update the status of the listener but receives no response.
RouteSynced	String	SYNCED	The update status of the route. Valid values: <code>SYNCED</code> : The status of the route is updated. <code>NOT_SENT</code> : The status of the route is not updated. <code>STALE (Never Acknowledged)</code> : Istiod has sent multiple requests to the Envoy proxy to update the status of the route but receives no response. <code>STALE</code> : Istiod has sent a request to the Envoy proxy to update the status of the route but receives no response.
EndpointSynced	String	SYNCED	The update status of the endpoint. Valid values: <code>SYNCED</code> : The status of the endpoint is updated. <code>NOT_SENT</code> : The status of the endpoint is not updated. <code>STALE (Never Acknowledged)</code> : Istiod has sent multiple requests to the Envoy proxy to update the status of the endpoint but receives no response. <code>STALE</code> : Istiod has sent a request to the Envoy proxy to update the status of the endpoint but receives no response.
ProxyId	String	119q****	The ID of the proxy on the data plane.
IstioVersion	String	1.9.7	The version of Istiod.

Parameter	Type	Example	Description
Code	String	200	The status code. Valid values: 200 : The status code returned because the operation is successful. 403 : The status code returned because you are not authorized to perform this operation. 503 : The status code returned because a backend server error occurs.
Success	String	success	Indicates whether the request is successful.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeServiceMeshProxyStatus
&ServiceMeshId=ca04bc38979214bf2882be79d39b4****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeServiceMeshProxyStatusResponse>
  <Message>success</Message>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
  <ProxyStatus>
    <ProxyVersion>1.9.7</ProxyVersion>
    <ClusterSynced>SYNCED</ClusterSynced>
    <EndpointPercent>1</EndpointPercent>
    <ListenerSynced>SYNCED</ListenerSynced>
    <RouteSynced>SYNCED</RouteSynced>
    <EndpointSynced>SYNCED</EndpointSynced>
    <ProxyId>119q****</ProxyId>
    <IstioVersion>1.9.7</IstioVersion>
  </ProxyStatus>
  <Code>200</Code>
  <Success>success</Success>
</DescribeServiceMeshProxyStatusResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Message" : "success",
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****",
  "ProxyStatus" : {
    "ProxyVersion" : "1.9.7",
    "ClusterSynced" : "SYNCED",
    "EndpointPercent" : 1,
    "ListenerSynced" : "SYNCED",
    "RouteSynced" : "SYNCED",
    "EndpointSynced" : "SYNCED",
    "ProxyId" : "119q****",
    "IstioVersion" : "1.9.7"
  },
  "Code" : 200,
  "Success" : "success"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.2. DescribeNamespaceScopeSidecarConfig

Queries the configurations of sidecar proxies at the namespace level.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeNamespaceScopeSidecarConfig	The operation that you want to perform. Set the value to DescribeNamespaceScopeSidecarConfig .
ServiceMeshId	String	Yes	c7120e75a202d4fd8acb028a86b6a****	The ID of the Alibaba Cloud Service Mesh (ASM) instance.
Namespace	String	No	default	The name of the namespace.

Response parameters

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.

Parameter	Type	Example	Description
ConfigPatches	Object		The namespace-level configurations.
TerminationDrainDuration	String	6s	The maximum period of time that the sidecar proxy waits for a request to end.
SidecarProxyInitResourceLimit	Object		The maximum size of resources that are available to the sidecar proxy init container.
ResourceCPULimit	String	2000 m	The maximum number of CPU cores.
ResourceMemoryLimit	String	50 Mi	The maximum size of the memory.
SidecarProxyInitResourceRequest	Object		The minimum size of resources that are requested by the sidecar proxy init container.
ResourceCPURequest	String	60 m	The minimum number of CPU cores.
ResourceMemoryRequest	String	30 Mi	The minimum size of the memory.
SidecarProxyResourceLimit	Object		The maximum size of resources that are available to the sidecar proxy container.
ResourceCPULimit	String	2000 m	The maximum number of CPU cores.
ResourceMemoryLimit	String	50 Mi	The maximum size of the memory.
SidecarProxyResourceRequest	Object		The minimum size of resources that are requested by the sidecar proxy container.
ResourceCPURequest	String	60 m	The minimum number of CPU cores.
ResourceMemoryRequest	String	30 Mi	The maximum size of the memory.
ExcludeOutboundPorts	String	81	The port that the outbound traffic of the sidecar proxy does not pass through.
ExcludeOutboundIPRanges	String	191.2.1.3/31	The IP address that the outbound traffic of the sidecar proxy does not pass through.
IncludeOutboundIPRanges	String	191.2.1.4/31	The IP address that the outbound traffic of the sidecar proxy passes through.

Parameter	Type	Example	Description
ExcludeInboundPorts	String	82	The port that the inbound traffic of the sidecar proxy does not pass through.
IncludeInboundPorts	String	83	The port that the inbound traffic of the sidecar proxy passes through.
IncludeOutboundPorts	String	84	The port that the outbound traffic of the sidecar proxy passes through.
IstioDNSProxyEnabled	Boolean	true	Indicates whether the DNS proxy feature is enabled. <code>true</code> : the DNS proxy feature is enabled. <code>false</code> : the DNS proxy feature is disabled.
LifecycleStr	String	null	The JSON string that describes the lifecycle of the sidecar proxy.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeNamespaceScopeSidecarConfig
&ServiceMeshId=c7120e75a202d4fd8acb028a86b6a****
&Namespace=default
&<Common request parameters>
```

Sample success responses

`XML` format

```

HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeNamespaceScopeSidecarConfigResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
  <ConfigPatches>
    <TerminationDrainDuration>6s</TerminationDrainDuration>
    <SidecarProxyInitResourceLimit>
      <ResourceCPULimit>2000 m</ResourceCPULimit>
      <ResourceMemoryLimit>50 Mi</ResourceMemoryLimit>
    </SidecarProxyInitResourceLimit>
    <SidecarProxyInitResourceRequest>
      <ResourceCPURequest>60 m</ResourceCPURequest>
      <ResourceMemoryRequest>30 Mi</ResourceMemoryRequest>
    </SidecarProxyInitResourceRequest>
    <SidecarProxyResourceLimit>
      <ResourceCPULimit>2000 m</ResourceCPULimit>
      <ResourceMemoryLimit>50 Mi</ResourceMemoryLimit>
    </SidecarProxyResourceLimit>
    <SidecarProxyResourceRequest>
      <ResourceCPURequest>60 m</ResourceCPURequest>
      <ResourceMemoryRequest>30 Mi</ResourceMemoryRequest>
    </SidecarProxyResourceRequest>
    <ExcludeOutboundPorts>81</ExcludeOutboundPorts>
    <ExcludeOutboundIPRanges>191.2.1.3/31</ExcludeOutboundIPRanges>
    <IncludeOutboundIPRanges>191.2.1.4/31</IncludeOutboundIPRanges>
    <ExcludeInboundPorts>82</ExcludeInboundPorts>
    <IncludeInboundPorts>83</IncludeInboundPorts>
    <IncludeOutboundPorts>84</IncludeOutboundPorts>
    <IstioDNSProxyEnabled>true</IstioDNSProxyEnabled>
    <LifecycleStr>{"postStart":{"exec":{"command":["pilot-agent","wait"]},"preStop":{"exec":{"com
mand":["/bin/sh","-c","sleep 15"]}}}</LifecycleStr>
  </ConfigPatches>
</DescribeNamespaceScopeSidecarConfigResponse>

```

JSON **format**

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****",
  "ConfigPatches" : {
    "TerminationDrainDuration" : "6s",
    "SidecarProxyInitResourceLimit" : {
      "ResourceCPULimit" : "2000 m",
      "ResourceMemoryLimit" : "50 Mi"
    },
    "SidecarProxyInitResourceRequest" : {
      "ResourceCPURequest" : "60 m",
      "ResourceMemoryRequest" : "30 Mi"
    },
    "SidecarProxyResourceLimit" : {
      "ResourceCPULimit" : "2000 m",
      "ResourceMemoryLimit" : "50 Mi"
    },
    "SidecarProxyResourceRequest" : {
      "ResourceCPURequest" : "60 m",
      "ResourceMemoryRequest" : "30 Mi"
    },
    "ExcludeOutboundPorts" : 81,
    "ExcludeOutboundIPRanges" : "191.2.1.3/31",
    "IncludeOutboundIPRanges" : "191.2.1.4/31",
    "ExcludeInboundPorts" : 82,
    "IncludeInboundPorts" : 83,
    "IncludeOutboundPorts" : 84,
    "IstioDNSProxyEnabled" : true,
    "LifecycleStr" : "{\"postStart\":{\"exec\":{\"command\":[\"pilot-agent\",\"wait\"]}},\"preStop\":{\"exec\":{\"command\":[\"/bin/sh\",\"-c\",\"sleep 15\"]}}}"
  }
}

```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.3. UpdateNamespaceScopeSidecarConfig

Updates the configurations of sidecar proxies at the namespace level.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateNamespaceScopeSidecarConfig	The operation that you want to perform. Set the value to UpdateNamespaceScopeSidecarConfig .

Parameter	Type	Required	Example	Description
ServiceMeshId	String	Yes	ca04bc38979214bf2882be79d39b4****	The ID of the Alibaba Cloud Service Mesh (ASM) instance.
Namespace	String	No	default	The name of the namespace.
IncludeIPRanges	String	No	*	The range of IP addresses that are denied to access external services. (global.proxy.includeIPRanges)
ExcludeIPRanges	String	No	172.16.0.0/12	The range of IP addresses that are allowed to access external services. (global.proxy.excludeIPRanges)
IncludeInboundPorts	String	No	83	The port that the inbound traffic of the sidecar proxy passes through.
ExcludeOutboundPorts	String	No	81	The port that the outbound traffic of the sidecar proxy does not pass through.
ExcludeInboundPorts	String	No	82	The port that the inbound traffic of the sidecar proxy does not pass through.
IncludeOutboundPorts	String	No	84	The port that the outbound traffic of the sidecar proxy passes through.
TerminationDrainDuration	String	No	6s	The maximum period of time that the sidecar proxy waits for a request to end.
ProxyInitCPUResourceLimit	String	No	2000 m	The maximum number of CPU cores that are available to the sidecar proxy init container.
ProxyInitMemoryResourceLimit	String	No	50 Mi	The maximum size of memory that is available to the sidecar proxy init container.
ProxyInitCPUResourceRequest	String	No	60 m	The minimum number of CPU cores that are requested by the sidecar proxy init container.
ProxyInitMemoryResourceRequest	String	No	30 Mi	The minimum size of memory that is requested by the sidecar proxy init container.
SidecarProxyCPUResourceLimit	String	No	2000 m	The maximum number of CPU cores that are available to the sidecar proxy container.

Parameter	Type	Required	Example	Description
SidecarProxyMemoryResourceLimit	String	No	50 Mi	The maximum size of memory that is available to the sidecar proxy container.
SidecarProxyCPUResourceRequest	String	No	60 m	The minimum number of CPU cores that are requested by the sidecar proxy container.
SidecarProxyMemoryResourceRequest	String	No	30 Mi	The minimum size of memory that is requested by the sidecar proxy container.
Lifecycle	String	No	null	The settings of sidecar proxy lifecycle.
IstioDNSProxyEnabled	Boolean	No	true	Specifies whether to enable the DNS proxy feature. <code>true</code> : enables the DNS proxy feature. <code>false</code> : disables the DNS proxy feature.

Response parameters

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.

Examples

Sample requests

```

http(s)://[Endpoint]/?Action=UpdateNamespaceScopeSidecarConfig
&ServiceMeshId=ca04bc38979214bf2882be79d39b4****
&Namespace=default
&IncludeIPRanges=*
&ExcludeIPRanges=172.16.0.0/12
&IncludeInboundPorts=83
&ExcludeOutboundPorts=81
&ExcludeInboundPorts=82
&IncludeOutboundPorts=84
&TerminationDrainDuration=6s
&ProxyInitCPUResourceLimit=2000 m
&ProxyInitMemoryResourceLimit=50 Mi
&ProxyInitCPUResourceRequest=60 m
&ProxyInitMemoryResourceRequest=30 Mi
&SidecarProxyCPUResourceLimit=2000 m
&SidecarProxyMemoryResourceLimit=50 Mi
&SidecarProxyCPUResourceRequest=60 m
&SidecarProxyMemoryResourceRequest=30 Mi
&Lifecycle={"postStart":{"exec":{"command":["pilot-agent","wait"]}}, "preStop":{"exec":{"command":["/bin/sh","-c","sleep 15"]}}}
&IstioDNSProxyEnabled=true
&<Common request parameters>

```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateNamespaceScopeSidecarConfigResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
</UpdateNamespaceScopeSidecarConfigResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

10.Cluster

10.1. DescribeServiceMeshClusters

Queries the clusters that can be added to an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeServiceMeshClusters	The operation that you want to perform. Set the value to DescribeServiceMeshClusters .
ServiceMeshId	String	No	cb8963379255149cb98c8686f274x****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.
Clusters	Array of Cluster		The clusters that can be added to the ASM instance.
SgId	String	sg-bp197668l6iupljy****	The ID of the security group.
VpcId	String	vpc-8vbrwmt95b4zf6wf7**	The ID of the virtual private cloud (VPC).
CreationTime	String	2020-05-12T15:38:16+08:00	The point in time when the cluster was created.
UpdateTime	String	2020-05-12T15:38:16+08:00	The point in time when the cluster was last modified.
ErrorMessage	String	fail	The error message about the cluster.

Parameter	Type	Example	Description
State	String	running	The status of the cluster. Valid values: <code>running</code> : The cluster is running. <code>starting</code> : The cluster is starting. <code>stopping</code> : The cluster is being stopped. <code>stopped</code> : The cluster is stopped. <code>failed</code> : The cluster fails to be run.
ServiceMeshId	String	cb8963379255149cb98c8686f274x****	The ID of the ASM instance.
RegionId	String	cn-hangzhou	The ID of the region in which the cluster resides.
ClusterDomain	String	c.com	The domain name of the cluster.
Version	String	v1.16.6-aliyun.1	The version number of the cluster.
ClusterType	String	Ask	The type of the cluster.
Name	String	ask1	The name of the cluster.
ClusterId	String	c80f45444b3da447da60a911390c2****	The ID of the cluster.
ForbiddenFlag	Long	0	Indicates that the cluster is available or the reason why the cluster cannot be added to the ASM instance. Valid values: <code>0</code> : The cluster can be added to the ASM instance. <code>1</code> : The cluster cannot be added to the ASM instance because you do not have administrator permissions on the cluster. <code>2</code> : The cluster cannot be added to the ASM instance because the cluster and the ASM instance reside in different VPCs between which no private connections are built. <code>3</code> : The CIDR block of the cluster conflicts with that of the ASM instance. <code>4</code> : The cluster has a namespace that is named istio system.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeServiceMeshClusters
&ServiceMeshId=cb8963379255149cb98c8686f274x****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeServiceMeshClustersResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
  <Clusters>
    <SgId>sg-bp19766816iuplly****</SgId>
    <VpcId>vpc-8vbrwmt95b4zf6wf7****</VpcId>
    <CreationTime>2020-05-12T15:38:16+08:00</CreationTime>
    <UpdateTime>2020-05-12T15:38:16+08:00</UpdateTime>
    <ErrorMessage>fail</ErrorMessage>
    <State>running</State>
    <ServiceMeshId>cb8963379255149cb98c8686f274x****</ServiceMeshId>
    <RegionId>cn-hangzhou</RegionId>
    <ClusterDomain>c.com</ClusterDomain>
    <Version>v1.16.6-aliyun.1</Version>
    <ClusterType>Ask</ClusterType>
    <Name>ask1</Name>
    <ClusterId>c80f45444b3da447da60a911390c2****</ClusterId>
    <ForbiddenFlag>0</ForbiddenFlag>
  </Clusters>
</DescribeServiceMeshClustersResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****",
  "Clusters" : {
    "SgId" : "sg-bp19766816iuplly****",
    "VpcId" : "vpc-8vbrwmt95b4zf6wf7****",
    "CreationTime" : "2020-05-12T15:38:16+08:00",
    "UpdateTime" : "2020-05-12T15:38:16+08:00",
    "ErrorMessage" : "fail",
    "State" : "running",
    "ServiceMeshId" : "cb8963379255149cb98c8686f274x****",
    "RegionId" : "cn-hangzhou",
    "ClusterDomain" : "c.com",
    "Version" : "v1.16.6-aliyun.1",
    "ClusterType" : "Ask",
    "Name" : "ask1",
    "ClusterId" : "c80f45444b3da447da60a911390c2****",
    "ForbiddenFlag" : 0
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

10.2. DescribeClustersInServiceMesh

Queries the information of clusters in an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
ServiceMeshId	String	Yes	cb8963379255149cb98c8686f274x****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
Clusters	Array of Cluster		The clusters in the ASM instance.
AccessLogDashboards	Array of AccessLogDashboardInfo		The configurations of the collection of access logs.
Title	String	mesh-access-log_details_cn	The name of the dashboard for access logs.
Url	String	https://sls.console.aliyun.com/next/project/***/dashboard/mesh-access-log_details_cn	The URL of the dashboard for access logs.
ClusterDomain	String	c.com	The domain name of the cluster.
ClusterId	String	c80f45444b3da447da60a911390c2****	The ID of the cluster.
ClusterType	String	Ask	The type of the cluster.
CreationTime	String	2020-05-12T15:38:16+08:00	The time when the cluster was created.
ErrorMessage	String	,	The error message that is returned when the call failed.
Name	String	ask1	The name of the cluster.
RegionId	String	cn-hangzhou	The ID of the region where the cluster resides.
SgId	String	sg-bp197668l6iupljy****	The ID of the security group.
State	String	running	The status of the cluster.

Parameter	Type	Example	Description
UpdateTime	String	2020-05-12T15:38:16+08:00	The time when the cluster was last modified.
Version	String	v1.16.6-aliyun.1	The version number of the cluster.
VpcId	String	vpc-2zew0rajjkmxy2369****	The ID of the virtual private cloud (VPC).
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DescribeClustersInServiceMesh
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
<Clusters>
  <ClusterId>c80f45444b3da447da60a911390c2****</ClusterId>
  <ClusterDomain>c.com</ClusterDomain>
  <SgId>sg-bp19766816iupljy****</SgId>
  <ClusterType>Ask</ClusterType>
  <Name>ask1</Name>
  <VpcId>vpc-2zew0rajjkmxy2369****</VpcId>
  <Version>v1.16.6-aliyun.1</Version>
  <State>running</State>
  <UpdateTime>2020-05-12T15:38:16+08:00</UpdateTime>
  <CreationTime>2020-05-12T15:38:16+08:00</CreationTime>
  <RegionId>cn-hangzhou</RegionId>
  <ErrorMessage></ErrorMessage>
</Clusters>
<Clusters>
  <AccessLogDashboards>
    <Title>mesh-access-log_details_cn</Title>
    <Url>https://sls.console.aliyun.com/next/project/****/dashboard/mesh-access-log_details_cn</Url>
  </AccessLogDashboards>
</Clusters>
```

JSON format

```
{ "RequestId": "31d3a0f0-07ed-4f6e-9004-1804498c****", "Clusters": [ { "ClusterId": "c80f45444b3da447da60a911390c2****", "ClusterDomain": "c.com", "SgId": "sg-bp19766816iupljy****", "ClusterType": "Ask", "Name": "ask1", "VpcId": "vpc-2zew0rajjkmxy2369****", "Version": "v1.16.6-aliyun.1", "State": "running", "UpdateTime": "2020-05-12T15:38:16+08:00", "CreationTime": "2020-05-12T15:38:16+08:00", "RegionId": "cn-hangzhou", "ErrorMessage": "" }, { "AccessLogDashboards": [ { "Title": "mesh-access-log_details_cn", "Url": "https://sls.console.aliyun.com/next/project/****/dashboard/mesh-access-log_details_cn" } ] } ] }
```

Error codes

For a list of error codes, visit the [API Error Center](#).

10.3. AddClusterIntoServiceMesh

Adds a cluster to an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
ClusterId	String	Yes	ce3c25e247da24f3aab9b7edfae83****	The ID of the cluster that you want to add to the ASM instance.
ServiceMeshId	String	Yes	cb8963379255149cb98c8686f274x****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
Code	String	200	The returned status code.
Message	String	success	The returned message.
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=AddClusterIntoServiceMesh
&ClusterId=ce3c25e247da24f3aab9b7edfae83e2xx
&ServiceMeshId=cb8963379255149cb98c8686f274xxc8d
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
<Message>success</Message>
<Code>200</Code>
```

JSON format

```
{
  "RequestId": "BD65C0AD-D3C6-48D3-8D93-38D2015C****",
  "Message": "success",
  "Code": 200
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

10.4. RemoveClusterFromServiceMesh

Removes a cluster from an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
ClusterId	String	Yes	cb8963379255149cb98c8686f274x****	The ID of the cluster that you want to remove from the ASM instance.
ServiceMeshId	String	Yes	ce3c25e247da24f3aab9b7edfae83****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
Code	String	200	The returned status code.
Message	String	success	The returned message
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=RemoveClusterFromServiceMesh
&ClusterId=cb8963379255149cb98c8686f274x****
&ServiceMeshId=ce3c25e247da24f3aab9b7edfae83****
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
<Message>success</Message>
<Code>200</Code>
```

JSON format

```
{
  "RequestId": "BD65C0AD-D3C6-48D3-8D93-38D2015C****",
  "Message": "success",
  "Code": 200
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

10.5. DescribeGuestClusterPods

Queries the pods in a specified namespace of a Kubernetes cluster that is added to an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeGuestClusterPods	The operation that you want to perform. Set the value to DescribeGuestClusterPods .
ServiceMeshId	String	Yes	c78d60f98fa43403ab6e0701b2678****	The ID of the ASM instance.
GuestClusterId	String	Yes	c49ad2169d5a04f2d89dfc4b6bcu****	The ID of the Kubernetes cluster that is added to the ASM instance.
Namespace	String	Yes	default	The name of the namespace.

Response parameters

Parameter	Type	Example	Description
RequestId	String	EDDC0D86-2FC3-56FB-9213-96EB0A3523F1	The ID of the request.
PodList	Array of String	sleep-5axqt-****	The names of the queried pods.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeGuestClusterPods
&ServiceMeshId=c78d60f98fa43403ab6e0701b2678****
&GuestClusterID=c49ad2169d5a04f2d89dfc4b6bcu****
&Namespace=default
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeGuestClusterPodsResponse>
  <RequestId>EDDC0D86-2FC3-56FB-9213-96EB0A3523F1</RequestId>
  <PodList>sleep-5axqt-*****</PodList>
</DescribeGuestClusterPodsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "EDDC0D86-2FC3-56FB-9213-96EB0A3523F1",
  "PodList" : "sleep-5axqt-*****"
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	ERR404	Not found	The error message returned because the requested resource does not exist.

For a list of error codes, visit the [API Error Center](#).

10.6. DescribeGuestClusterNamespaces

Queries the namespaces of a Kubernetes cluster that is added to an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeGuestClusterNamespaces	The operation that you want to perform. Set the value to DescribeGuestClusterNamespaces .

Parameter	Type	Required	Example	Description
ServiceMeshId	String	Yes	ce134b0727aa2492db69f6c3880e****	The ID of the ASM instance.
GuestClusterID	String	Yes	c584d805c7bd442b8bac421f9849f****	The ID of the Kubernetes cluster that is added to the ASM instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.
NsList	Array of String	default	The names of the queried namespaces.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeGuestClusterNamespaces
&ServiceMeshId=ce134b0727aa2492db69f6c3880e****
&GuestClusterID=c584d805c7bd442b8bac421f9849f****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeGuestClusterNamespacesResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
  <NsList>default</NsList>
</DescribeGuestClusterNamespacesResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****",
  "NsList" : "default"
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	ERR404	Not found	The error message returned because the requested resource does not exist.

For a list of error codes, visit the [API Error Center](#).

10.7. DescribeReusableSlb

Queries the Server Load Balancer (SLB) instances that can be reused.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeReusableSlb	The operation that you want to perform. Set this parameter to DescribeReusableSlb .
K8sClusterId	String	Yes	ca2cfe41fefeb489d9b9dba18a7c5****	The ID of the Kubernetes cluster on the data plane.
NetworkType	String	Yes	internet	The network type of the SLB instance. Valid values: - intranet - internet

Response parameters

Parameter	Type	Example	Description
ReusableSlbList	Array of ReusableSlbList		The list of SLB instances that can be reused.
LoadBalancerName	String	ad6044b015ac54484a20c47241175bb3	The name of the SLB instance.
LoadBalancerId	String	lb-bp17xygzsxth0bwlz***	The ID of the SLB instance.
RequestId	String	EDDC0D86-2FC3-56FB-9213-96EB0A3523F1	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeReusableSlb
&K8sClusterId=ca2cfe41fefeb489d9b9dba18a7c5****
&NetworkType=internet
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeReusableSlbResponse>
  <ReusableSlbList>
    <LoadBalancerName>ad6044b015ac54484a20c47241175bb3</LoadBalancerName>
    <LoadBalancerId>lb-bp17xygzsxth0bwlz****</LoadBalancerId>
  </ReusableSlbList>
  <RequestId>EDDC0D86-2FC3-56FB-9213-96EB0A3523F1</RequestId>
</DescribeReusableSlbResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "ReusableSlbList" : {
    "LoadBalancerName" : "ad6044b015ac54484a20c47241175bb3",
    "LoadBalancerId" : "lb-bp17xygzsxth0bwlz****"
  },
  "RequestId" : "EDDC0D86-2FC3-56FB-9213-96EB0A3523F1"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

10.8. GetRegisteredServiceEndpoints

Queries the endpoints of a registered service in an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetRegisteredServiceEndpoints	The operation that you want to perform. Set the value to GetRegisteredServiceEndpoints .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
Namespace	String	No	default	The name of the namespace.
ClusterIds	String	No	c8b054ee8c3914d079b5ce9733328****, c58faedb8a78640d3aeb0372e4c02****	The IDs of clusters in the ASM instance. Separate multiple cluster IDs with commas (,).

Parameter	Type	Required	Example	Description
Name	String	No	reviews	The name of the registered service.
ServiceType	String	No	Kubernetes	The type of the registered service. Valid values: <code>ServiceEntry</code> : indicates that the service is registered by creating a service entry. <code>Kubernetes</code> : indicates that the service is registered on a Kubernetes cluster on the data plane.

Response parameters

Parameter	Type	Example	Description
ServiceEndpoints	Array of ServiceEndpoint		The endpoints of the registered service.
Address	String	192.168.25.153	The IP address of the registered service.
ClusterId	String	c80f45444b3da447da60a911390c2****	The ID of the cluster on the data plane.
EndPointSlice	Object		The details of the endpoints of the registered service.
ServiceName	String	reviews	The name of the registered service.
Namespace	String	default	The name of the namespace.
Location	String	MESH_INTERNAL	The location of the registered service. Valid values: <code>MESH_INTERNAL</code> : The service is deployed inside the ASM instance. <code>MESH_EXTERNAL</code> : The service is deployed outside the ASM instance.
EndpointsDetails	Array of endpointsDetail		The details of the endpoint of the registered service.
PodName	String	provider-v1-8c86b6898-h***	The name of the pod.
Address	String	127.2.**.**	The IP address of the registered service.
Ports	Array of Integer	9090	The port of the registered service.

Parameter	Type	Example	Description
Hostname	String	www.demo.com	The host name of the registered service.
Region	String	cn-hangzhou	The ID of the region in which the registered service resides.
SidecarInjected	Boolean	false	Indicates whether sidecar proxies are injected. Valid values: - true : yes - false : no
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetRegisteredServiceEndpoints
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&Namespace=default
&ClusterIds=c8b054ee8c3914d079b5ce9733328****,c58faedb8a78640d3aeb0372e4c02****
&Name=reviews
&ServiceType=Kubernetes
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetRegisteredServiceEndpointsResponse>
  <ServiceEndpoints>
    <Address>192.168.25.153</Address>
    <ClusterId>c80f45444b3da447da60a911390c2****</ClusterId>
  </ServiceEndpoints>
  <EndPointSlice>
    <ServiceName>reviews</ServiceName>
    <Namespace>default</Namespace>
    <Location>MESH_INTERNAL</Location>
    <EndpointsDetails>
      <PodName>provider-v1-8c86b6898-h****</PodName>
      <Address>127.2.**.*</Address>
      <Ports>9090</Ports>
      <Hostname>www.demo.com</Hostname>
      <Region>cn-hangzhou</Region>
      <SidecarInjected>false</SidecarInjected>
    </EndpointsDetails>
  </EndPointSlice>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
</GetRegisteredServiceEndpointsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "ServiceEndpoints" : {
    "Address" : "192.168.25.153",
    "ClusterId" : "c80f45444b3da447da60a911390c2****"
  },
  "EndPointSlice" : {
    "ServiceName" : "reviews",
    "Namespace" : "default",
    "Location" : "MESH_INTERNAL",
    "EndpointsDetails" : {
      "PodName" : "provider-v1-8c86b6898-h***",
      "Address" : "127.2.**.**",
      "Ports" : 9090,
      "Hostname" : "www.demo.com",
      "Region" : "cn-hangzhou",
      "SidecarInjected" : false
    }
  },
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****"
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	ERR500	An internal server error occurred.	The error message returned because a backend service error occurs.

For a list of error codes, visit the [API Error Center](#).

10.9. GetRegisteredServiceNamespaces

Queries the namespaces of a registered service in an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	GetRegisteredServiceNamespaces	The operation that you want to perform. Set the value to GetRegisteredServiceNamespaces .
ServiceMeshId	String	Yes	cb8963379255149cb98c8686f274x****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
Namespaces	Array of String	default	The names of the queried namespaces.
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetRegisteredServiceNamespaces
&ServiceMeshId=cb8963379255149cb98c8686f274x****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<GetRegisteredServiceNamespacesResponse>
  <Namespaces>default</Namespaces>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
</GetRegisteredServiceNamespacesResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Namespaces" : "default",
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****"
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	ERR500	An internal server error occurred.	The error message returned because a backend service error occurs.

For a list of error codes, visit the [API Error Center](#).

11.ASM Gateway

11.1. CreateASMGateway

Creates an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateASMGateway	The operation that you want to perform. Set the value to CreateASMGateway .
ServiceMeshId	String	Yes	cb8963379255149cb98c8686f274x****	The ID of the ASM instance.
IstioGatewayName	String	No	ingressgateway	The name of the ASM gateway.
Body	String	No	null	The YAML content that is used to create the ASM gateway.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateASMGateway
&ServiceMeshId=cb8963379255149cb98c8686f274x****
&IstioGatewayName=ingressgateway
&Body={"apiVersion":"istio.alibabacloud.com/v1beta1","kind":"IstioGateway","metadata":{"name":"ingressgateway","namespace":"istio-system"},"spec":{"gatewayType":"ingress","clusterIds":["xxxxx"],"ports":[{"name":"http-0","port":80,"targetPort":80,"protocol":"TCP"}, {"name":"https-1","port":443,"targetPort":443,"protocol":"TCP"}],"serviceAnnotations":{"service.beta.kubernetes.io/alibabacloud-loadbalancer-address-type":"internet","service.beta.kubernetes.io/alibaba-cloud-loadbalancer-spec":"slb.sl.small"},"replicaCount":2,"resources":{"limits":{"cpu":"2","memory":"4G"},"requests":{"cpu":"200m","memory":"256Mi"}}, "serviceType":"LoadBalancer","maxReplicas":2,"minReplicas":2}}
&Common request parameters
```

Sample success responses

XML format


```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateASMGatewayResponse>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
</CreateASMGatewayResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.2. CreateIstioGatewayRoutes

Creates a routing rule for an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateIstioGatewayRoutes	The operation that you want to perform. Set the value to CreateIstioGatewayRoutes .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
IstioGatewayName	String	No	ingressgateway	The name of the ASM gateway.
GatewayRoute	Object	No		The information about the routing rule to be created for the ASM gateway.
RouteName	String	No	reviews-v2-routes	The name of the routing rule.
RouteType	String	No	HTTP	The type of the traffic to be routed. Valid values: <code>HTTP</code> , <code>TLS</code> , and <code>TCP</code> .
MatchRequest	Object	No		The matching rules for traffic routing.

Parameter	Type	Required	Example	Description
URI	Object	No		The matching rule for URIs.
MatchingMode	String	No	prefix	The matching mode. Valid values: <code>exact</code> : exact match <code>prefix</code> : match by prefix <code>regex</code> : match by regular expression
MatchingContent	String	No	/ratings/v2/	The content to be matched.
Headers	Array	No		The request headers to be matched.
Name	String	No	x-request-id	The header key to be matched.
MatchingMode	String	No	exact	The matching mode for the header value. Valid values: <code>exact</code> : exact match <code>prefix</code> : match by prefix <code>regex</code> : match by regular expression
MatchingContent	String	No	v1	The header value to be matched.
TLSMatchAttributes	Array	No		The matching rule for TLS traffic.
TLSPort	Integer	No	443	The TLS port.
SNIHosts	Array of String	No	*.com	The Server Name Indication (SNI) values to be matched. Wildcards can be used as the prefix of an SNI value. For example, a value of <code>*.com</code> matches <code>foo.example.com</code> and <code>example.com</code>.  Note The SNI values must be a subset of the hostnames of the corresponding virtual hosts.
Ports	Array of Integer	No	443	The ports of the specified hosts to which the traffic is routed.
RouteDestinations	Array	No		The endpoints of destination services for Layer 4 weighted routing.

Parameter	Type	Required	Example	Description
Destination	Object	No		The unique endpoint of the destination service to which the specified requests are sent.
Host	String	No	reviews	The name of the service defined in the service registry.
Subset	String	No	v1	The name of the service subset.
Weight	Integer	No	80	The weight of the service subset.
HTTPAdvancedOptions	Object	No		The advanced settings for routing HTTP traffic.
HTTPRedirect	Object	No		The HTTP redirect rule.
Uri	String	No	/v1/getProductRatings	The value to be used to overwrite the URL path during redirection.
Authority	String	No	newratings.default.svc.cluster.local	The value to be used to overwrite the value of the Authority or Host header during redirection.
RedirectCode	Integer	No	301	The response code to be used for indicating URL redirection. Default value: 301.
Delegate	Object	No		The virtual service that defines traffic routing.
Name	String	No	reviews	The name of the virtual service.
Namespace	String	No	default	The namespace to which the virtual service belongs.
Rewrite	Object	No		The configurations for rewriting the virtual service.
Uri	String	No	/v1/getProductRatings	The value to be used to overwrite the path or prefix of the URI.
Authority	String	No	newratings.default.svc.cluster.local	The value to be used to overwrite the value of the Authority or Host header.

Parameter	Type	Required	Example	Description
Timeout	String	No	5s	The timeout period for requests.
Retries	Object	No		The configurations of retries for failed requests.
Attempts	Integer	No	3	The maximum number of retries allowed for a request.
PerTryTimeout	String	No	2s	The timeout period for each retry.
RetryOn	String	No	connect-failure,refused-stream,503	The condition for retries. Example: <code>connect-failure,refused-stream,503</code> .
RetryRemoteLocalities	Object	No		Specifies whether to allow retries to other localities.
Value	Boolean	No	false	Specifies whether to allow retries to other localities. Valid values: <code>true</code>: allows retries to other localities. <code>false</code>: does not allow retries to other localities. Default value: <code>false</code> .
Fault	Object	No		The configurations of fault injection.
Delay	Object	No		The duration to delay a request.
FixedDelay	String	No	5s	The fixed duration for request delay.
Percentage	Object	No		The percentage of requests to which the delay fault is injected.
Value	Float	No	0.1	The percentage of requests to which the delay fault is injected, expressed as a decimal.
Abort	Object	No		The configurations for aborting requests with specified error codes.
HttpStatus	Integer	No	400	The specified HTTP error code.

Parameter	Type	Required	Example	Description
Percentage	Object	No		The percentage of requests that are aborted with the specified error code.
Value	Float	No	0.1	The percentage of requests that are aborted with the specified error code, expressed as a decimal.
Mirror	Object	No		The configurations for mirroring HTTP traffic to another destination in addition to forwarding requests to the specified destination.
Host	String	No	reviews.default.svc. cluster.local	The name of the service defined in the service registry.
Subset	String	No	v1	The name of the service subset.
MirrorPercentage	Object	No		The percentage of requests that are mirrored to another destination except for the original destination.
Value	Float	No	0.2	The percentage of requests that are mirrored to another destination except for the original destination, expressed as a decimal.
Priority	Integer	No	1	The priority of the routing rule. The value of this parameter is an integer. A smaller value indicates a higher priority.
Status	Integer	No	1	The status of the routing rule. Valid values: 0 : The routing rule is valid. 1 : The routing rule is invalid. 2 : An error occurs during the creation or update of the routing rule.
Description	String	No	demo route	The description of the routing rule.

Response parameters

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateIstioGatewayRoutes
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&IstioGatewayName=ingressgateway
&GatewayRoute={"RouteName":"reviews-v2-routes","RouteType":"HTTP","MatchRequest":{"URI":{"MatchingMode":"prefix","MatchingContent":"/ratings/v2/"},"Headers":[{"Name":"x-request-id","MatchingMode":"exact","MatchingContent":"v1"}],"TLSMatchAttributes":[{"TLSPort":443,"SNIHosts":["*.com"]}],"Ports":[443],"RouteDestinations":[{"Destination":{"Host":"reviews","Subset":"v1"},"Weight":80}],"HTTPAdvancedOptions":{"HTTPRedirect":{"Uri":"/v1/getProductRatings","Authority":"newratings.default.svc.cluster.local","RedirectCode":301},"Delegate":{"Name":"reviews","Namespace":"default"},"Rewrite":{"Uri":"/v1/getProductRatings","Authority":"newratings.default.svc.cluster.local"},"Timeout":"5s","Retries":{"Attempts":3,"PerTryTimeout":"connect-failure,refused-stream,503","RetryOn":"connect-failure,refused-stream,503","RetryRemoteLocalities":{"Value":false},"Fault":{"Delay":{"FixedDelay":"5s","Percentage":{"Value":0.1}},"Abort":{"HttpStatus":400,"Percentage":{"Value":0.1}}},"Mirror":{"Host":"reviews.default.svc.cluster.local","Subset":"v1"},"MirrorPercentage":{"Value":0.2}}}}}&Priority=1
&Status=1
&Description=demo route
&<Common request parameters>
```

Sample success responses

XML **format**

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateIstioGatewayRoutesResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
</CreateIstioGatewayRoutesResponse>
```

JSON **format**

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.3. CreateGatewaySecret

Creates a secret for an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
-----------	------	----------	---------	-------------

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateGatewaySecret	The operation that you want to perform. Set the value to CreateGatewaySecret .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
IstioGatewayName	String	No	ingressgateway	The name of the ASM gateway.
SecretName	String	No	bookinfo-secret	The name of the secret.
Cert	String	No	-----BEGIN CERTIFICATE----- MIIC2DCCACA----- END CERTIFICATE-----	The content of the certificate.
Key	String	No	MIIEvAIBADANBgkqhkiG9w0BAQEFAASCBKYYwggsIAgEAAoIBAQC2ag/Bzcgm****	The private key of the certificate.

Response parameters

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.
SecretCreateRecord	Map		The record of creating the secret.
	Object		The information of the creation record.
State	String	success	The result of creating the secret. Valid values: <code>success</code>: The secret was created. <code>fail</code>: The secret failed to be created.
ClusterId	String	c08ba3fd1e6484b0f8cc1ad8xe10d****	The ID of the cluster on the data plane.
Message	String	timeout	The error message returned when exceptions occur. Otherwise, an empty value is returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=CreateGatewaySecret
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&IstioGatewayName=ingressgateway
&SecretName=bookinfo-secret
&Cert=-----BEGIN CERTIFICATE----- MIIC2DCCAcACA-----END CERTIF****-----
&Key=MIIEvAIBADANBgkqhkiG9w0BAQEFAASCByYwggSiAgEAAoIBAQC2ag/Bzcgm****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateGatewaySecretResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
  <SecretCreateRecord>
    <key>
      <State>success</State>
      <ClusterId>c08ba3fd1e6484b0f8cc1ad8xe10d****</ClusterId>
      <Message>timeout</Message>
    </key>
  </SecretCreateRecord>
</CreateGatewaySecretResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****",
  "SecretCreateRecord" : {
    "key" : {
      "State" : "success",
      "ClusterId" : "c08ba3fd1e6484b0f8cc1ad8xe10d****",
      "Message" : "timeout"
    }
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.4. CreateIstioGatewayDomains

Adds one or more domain names for an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateIstioGatewayDomains	The operation that you want to perform. Set the value to CreateIstioGatewayDomains .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
IstioGatewayName	String	Yes	ingressgateway	The name of the ASM gateway.
Hosts	String	Yes	example.com,demo.com	The one or more hostnames that are exposed by the ASM gateway. Separate multiple hostnames with commas (,).
Number	Integer	Yes	443	The port that is provided by the ASM gateway.
PortName	String	Yes	http-demo	The name of the port.
Protocol	String	Yes	HTTPS	The type of the protocol. Valid values: HTTP , HTTPS , GRPC , HTTP2 , MONGO , TCP , and TLS .
Credential	String	No	bookinfo-secret	The name of the secret that contains the TLS certificate and the CA certificate.
ForceHttps	Boolean	No	true	Specifies whether to forcibly use TLS to protect connection security.

Response parameters

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.

Examples

Sample requests

```

http(s)://[Endpoint]/?Action=CreateIstioGatewayDomains
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&IstioGatewayName=ingressgateway
&Hosts=example.com,demo.com
&Number=443
&PortName=http-demo
&Protocol=HTTPS
&Credential=bookinfo-secret
&ForceHttps=true
&<Common request parameters>

```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateIstioGatewayDomainsResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
</CreateIstioGatewayDomainsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.5. DeleteGatewayRoute

Deletes a routing rule for an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteGatewayRoute	The operation that you want to perform. Set the value to DeleteGatewayRoute .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
IstioGatewayName	String	No	ingressgateway	The name of the ASM gateway.
RouteName	String	No	http-route	The name of the routing rule.

Response parameters

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DeleteGatewayRoute
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&IstioGatewayName=ingressgateway
&RouteName=http-route
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DeleteGatewayRouteResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
</DeleteGatewayRouteResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****"
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	ERR500	An internal server error occurred.	The error message returned because a backend service error has occurred.

For a list of error codes, visit the [API Error Center](#).

11.6. DeleteGatewaySecret

Deletes a secret for an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteGatewaySecret	The operation that you want to perform. Set the value to DeleteGatewaySecret .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
IstioGatewayName	String	No	ingressgateway	The name of the ASM gateway.

Parameter	Type	Required	Example	Description
SecretName	String	No	bookinfo-secret	The name of the secret.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.
SecretDeleteRecord	Map		The record of deleting the secret.
	Object		The information of the deletion record.
State	String	success	The result of deleting the secret. Valid values: <code>success</code> : The secret was deleted. <code>fail</code> : The secret failed to be deleted.
ClusterId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the cluster.
Message	String	timeout	The error message returned when exceptions occur. Otherwise, an empty value is returned.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DeleteGatewaySecret
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&IstioGatewayName=ingressgateway
&SecretName=bookinfo-secret
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DeleteGatewaySecretResponse>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
  <SecretDeleteRecord>
    <key>
      <State>success</State>
      <ClusterId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</ClusterId>
      <Message>timeout</Message>
    </key>
  </SecretDeleteRecord>
</DeleteGatewaySecretResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****",
  "SecretDeleteRecord" : {
    "key" : {
      "State" : "success",
      "ClusterId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****",
      "Message" : "timeout"
    }
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.7. DeletelstioGatewayDomains

Deletes one or more domain names for an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeletelstioGatewayDomains	The operation that you want to perform. Set the value to DeletelstioGatewayDomains .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
IstioGatewayName	String	No	ingressgateway	The name of the ASM gateway.
Hosts	String	No	example.com,demo.com	The domain names of the one or more hosts that are exposed by the ASM gateway. Separate multiple domain names with commas (,).
PortName	String	No	https	The name of the port.
Namespace	String	No	default	The namespace in which the ASM gateway resides.
Limit	String	No	10	The maximum number of ASM gateways to query.

Response parameters

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DeleteIstioGatewayDomains
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&IstioGatewayName=ingressgateway
&Hosts=example.com,demo.com
&PortName=https
&Namespace=default
&Limit=10
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DeleteIstioGatewayDomainsResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
</DeleteIstioGatewayDomainsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.8. UpdateASMGateway

Updates an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
-----------	------	----------	---------	-------------

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateASMGateway	The operation that you want to perform. Set the value to UpdateASMGateway .
ServiceMeshId	String	Yes	cb8963379255149cb98c8686f274x****	The ID of the ASM instance.
IstioGatewayName	String	No	ingressgateway	The name of the ASM gateway.
Body	String	No	null	The new YAML content of the ASM gateway.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateASMGateway
&ServiceMeshId=cb8963379255149cb98c8686f274x****
&IstioGatewayName=ingressgateway
&Body={
  "apiVersion": "istio.alibabacloud.com/v1beta1",
  "kind": "IstioGateway",
  "metadata": {
    "name": "ingressgateway",
    "namespace": "istio-system"
  },
  "spec": {
    "gatewayType": "ingress",
    "clusterIds": ["xxxxx"],
    "ports": [
      {
        "name": "http-0",
        "port": 80,
        "targetPort": 80,
        "protocol": "TCP"
      },
      {
        "name": "https-1",
        "port": 443,
        "targetPort": 443,
        "protocol": "TCP"
      }
    ],
    "serviceAnnotations": {
      "service.beta.kubernetes.io/alibabacloud-loadbalancer-address-type": "internet",
      "service.beta.kubernetes.io/alibaba-cloud-loadbalancer-spec": "slb.s1.small",
      "replicaCount": 2,
      "resources": {
        "limits": {
          "cpu": "2",
          "memory": "4G"
        },
        "requests": {
          "cpu": "200m",
          "memory": "256Mi"
        }
      },
      "serviceType": "LoadBalancer",
      "maxReplicas": 2,
      "minReplicas": 2
    }
  }
}
&Common request parameters
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type: application/xml
<UpdateASMGatewayResponse>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
</UpdateASMGatewayResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type: application/json
{
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.9.

UpdateASMGatewayImportedServices

Updates imported services on an Alibaba Cloud Service Mesh (ASM) gateway to import or delete upstream services associated with the gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateASMGatewayImportedServices	The operation that you want to perform. Set the value to UpdateASMGatewayImportedServices .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
ServiceNames	String	No	reviews,sleep	The names of the services. Separate multiple service names with commas (.). Example: reviews,sleep.
ASMGatewayName	String	No	ingressgateway	The name of the ASM gateway.
ServiceNamespace	String	No	default	The namespace in which the service resides.

Response parameters

Parameter	Type	Example	Description
RequestId	String	11fd0027-c27e-41bb-a565-75583054****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateASMGatewayImportedServices
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&ServiceNames=reviews,sleep
&ASMGatewayName=ingressgateway
&ServiceNamespace=default
&Common request parameters
```

Sample success responses

`XML` `format`


```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateASMGatewayImportedServicesResponse>
  <RequestId>11fd0027-c27e-41bb-a565-75583054****</RequestId>
</UpdateASMGatewayImportedServicesResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "11fd0027-c27e-41bb-a565-75583054****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.10. UpdateIstioGatewayRoutes

Updates a routing rule for an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateIstioGatewayRoutes	The operation that you want to perform. Set the value to UpdateIstioGatewayRoutes .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
IstioGatewayName	String	No	ingressgateway	The name of the ASM gateway.
GatewayRoute	Object	No		The information about the routing rule to be updated for the ASM gateway.
RouteName	String	No	reviews-v2-routes	The name of the routing rule.
RouteType	String	No	HTTP	The type of the traffic to be routed. Valid values: <code>HTTP</code> , <code>TLS</code> , and <code>TCP</code> .
MatchRequest	Object	No		The matching rules for traffic routing.
URI	Object	No		The matching rule for URIs.

Parameter	Type	Required	Example	Description
MatchingMode	String	No	prefix	The matching mode for the routing rule. Valid values: <code>exact</code> : exact match <code>prefix</code> : match by prefix <code>regex</code> : match by regular expression
MatchingContent	String	No	/ratings/v2/	The content to be matched.
Headers	Array	No		The request headers to be matched.
Name	String	No	x-request-id	The header key to be matched.
MatchingMode	String	No	exact	The matching mode for the header value. Valid values: <code>exact</code> : exact match <code>prefix</code> : match by prefix <code>regex</code> : match by regular expression
MatchingContent	String	No	v1	The header value to be matched.
TLSMatchAttributes	Array	No		The matching rule for Transport Layer Security (TLS) traffic.
TLSPort	Integer	No	443	The TLS port.
SNIHosts	Array of String	No	*.com	The Server Name Indication (SNI) values to be matched. Wildcards can be used as the prefix of an SNI value. For example, a value of <code>*.com</code> matches <code>foo.example.com</code> and <code>example.com</code>.  Note The SNI values must be a subset of the hostnames of the corresponding virtual hosts.
Ports	Array of Integer	No	443	The ports of the specified hosts to which the traffic is routed.
RouteDestinations	Array	No		The endpoints of destination services for Layer 4 weighted routing.

Parameter	Type	Required	Example	Description
Destination	Object	No		The unique endpoint of the destination service to which the specified requests are sent.
Host	String	No	reviews	The name of the service defined in the service registry.
Subset	String	No	v1	The name of the service subset.
Weight	Integer	No	80	The weight of the service subset.
HTTPAdvancedOptions	Object	No		The advanced settings for routing HTTP traffic.
HTTPRedirect	Object	No		The HTTP redirect rule.
Uri	String	No	/v1/getProductRatings	The value to be used to overwrite the URL path during redirection.
Authority	String	No	newratings.default.svc.cluster.local	The value to be used to overwrite the value of the Authority or Host header during redirection.
RedirectCode	Integer	No	301	The response code to be used to indicate URL redirection. Default value: 301.
Delegate	Object	No		The virtual service that defines traffic routing.
Name	String	No	reviews	The name of the virtual service.
Namespace	String	No	default	The namespace to which the virtual service belongs.
Rewrite	Object	No		The configurations for rewriting the virtual service.
Uri	String	No	/v1/getProductRatings	The value to be used to overwrite the path or prefix of the URI.
Authority	String	No	newratings.default.svc.cluster.local	The value to be used to overwrite the value of the Authority or Host header.

Parameter	Type	Required	Example	Description
Timeout	String	No	5s	The timeout period for requests.
Retries	Object	No		The configurations of retries for failed requests.
Attempts	Integer	No	3	The maximum number of retries allowed for a request.
RetryOn	String	No	connect-failure,refused-stream,503	The condition for retries. Example: <code>connect-failure,refused-stream,503</code> .
RetryRemoteLocalities	Object	No		Specifies whether to allow retries to other localities.
Value	Boolean	No	false	Specifies whether to allow retries to other localities. Valid values: <code>true</code>: allows retries to other localities. <code>false</code>: does not allow retries to other localities. Default value: <code>false</code> .
PerTryTimeout	String	No	2s	The timeout period for each retry.
Fault	Object	No		The configurations of fault injection.
Delay	Object	No		The duration to delay a request.
FixedDelay	String	No	5s	The fixed duration for request delay.
Percentage	Object	No		The percentage of requests to which the delay fault is injected.
Value	Float	No	0.1	The percentage of requests to which the delay fault is injected, expressed as a decimal.
Abort	Object	No		The configurations for aborting requests with specified error codes.
HttpStatus	Integer	No	400	The specified HTTP error code.

Parameter	Type	Required	Example	Description
Percentage	Object	No		The percentage of requests that are aborted with the specified error code.
Value	Float	No	0.1	The percentage of requests that are aborted with the specified error code, expressed as a decimal.
Mirror	Object	No		The configurations for mirroring HTTP traffic to another destination in addition to forwarding requests to the specified destination.
Host	String	No	reviews.default.svc. cluster.local	The name of the service defined in the service registry.
Subset	String	No	v1	The name of the service subset.
MirrorPercentage	Object	No		The percentage of requests that are mirrored to another destination except for the original destination.
Value	Float	No	0.2	The percentage of requests that are mirrored to another destination except for the original destination, expressed as a decimal.
Namespace	String	No	default	The namespace in which the destination service resides.
Priority	Integer	No	1	The priority of the routing rule. The value of this parameter is an integer. A smaller value indicates a higher priority.
Status	Integer	No	1	The status of the routing rule. Valid values: 0 : The routing rule is valid. 1 : The routing rule is invalid. 2 : An error occurs during the creation or update of the routing rule.
Description	String	No	demo route	The description of the routing rule.

Response parameters

Parameter	Type	Example	Description
-----------	------	---------	-------------

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateIstioGatewayRoutes
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&IstioGatewayName=ingressgateway
&GatewayRoute={
  "RouteName": "reviews-v2-routes",
  "RouteType": "HTTP",
  "MatchRequest": {
    "URI": {
      "MatchingMode": "prefix",
      "MatchingContent": "/ratings/v2/"
    },
    "Headers": [
      {
        "Name": "x-request-id",
        "MatchingMode": "exact",
        "MatchingContent": "v1"
      }
    ],
    "TLSMatchAttributes": [
      {
        "TLSPort": 443,
        "SNIHosts": ["*.com"]
      }
    ],
    "Ports": [443],
    "RouteDestinations": [
      {
        "Destination": {
          "Host": "reviews",
          "Subset": "v1",
          "Weight": 80
        },
        "HTTPAdvancedOptions": {
          "HTTPRedirect": {
            "Uri": "/v1/getProductRatings",
            "Authority": "newratings.default.svc.cluster.local",
            "RedirectCode": 301,
            "Delegate": {
              "Name": "reviews",
              "Namespace": "default"
            },
            "Rewrite": {
              "Uri": "/v1/getProductRatings",
              "Authority": "newratings.default.svc.cluster.local",
              "Timeout": "5s",
              "Retries": {
                "Attempts": 3,
                "RetryOn": "connect-failure,refused-stream,503",
                "RetryRemoteLocalities": {
                  "Value": false,
                  "PerTryTimeout": "2s"
                },
                "Fault": {
                  "Delay": {
                    "FixedDelay": "5s",
                    "Percentage": {
                      "Value": 0.1
                    }
                },
                "Abort": {
                  "HttpStatus": 400,
                  "Percentage": {
                    "Value": 0.1
                  }
                },
                "Mirror": {
                  "Host": "reviews.default.svc.cluster.local",
                  "Subset": "v1",
                  "MirrorPercentage": {
                    "Value": 0.2
                  },
                  "Namespace": "default"
                }
              }
            }
          }
        }
      }
    ],
    "Priority": 1,
    "Status": 1,
    "Description": "demo route"
  }
}
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateIstioGatewayRoutesResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
</UpdateIstioGatewayRoutesResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.11. UpdateIstioRouteAdditionalStatus

Updates the information about a routing rule for an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateIstioRouteAdditionalStatus	The operation that you want to perform. Set the value to UpdateIstioRouteAdditionalStatus .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
IstioGatewayName	String	No	ingressgateway	The name of the ASM gateway.
RouteName	String	No	http-test	The name of the routing rule.
Priority	Integer	No	0	The priority of the routing rule. The value of this parameter is an integer. A smaller value indicates a higher priority.
Status	Integer	No	0	The status of the routing rule. Valid values: 0 : The routing rule is valid. 1 : The routing rule is invalid. 2 : An error occurs during the creation or update of the routing rule.
Description	String	No	demo route	The description of the routing rule.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpdateIstioRouteAdditionalStatus
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&IstioGatewayName=ingressgateway
&RouteName=http-test
&Priority=0
&Status=0
&Description=demo route
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateIstioRouteAdditionalStatusResponse>
  <RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
</UpdateIstioRouteAdditionalStatusResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "BD65C0AD-D3C6-48D3-8D93-38D2015C****"
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	ERR500	An internal server error occurred.	The error message returned because a backend service error has occurred.

For a list of error codes, visit the [API Error Center](#).

11.12. DescribeIngressGateways

Queries the information about the ingress gateways of an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeIngressGateways	The operation that you want to perform. Set the value to DescribeIngressGateways .
ServiceMeshId	String	No	ca04bc38979214bf2882be79d39b4****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.

Parameter	Type	Example	Description
IngressGateways	Array of Object	<pre>{ClusterId:c75918e36d8964fa2bc0a5d049c89**}</pre>	The information about the ingress gateways of the ASM instance.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeIngressGateways
&ServiceMeshId=ca04bc38979214bf2882be79d39b4****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeIngressGatewaysResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
  <IngressGateways/>
</DescribeIngressGatewaysResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****",
  "IngressGateways" : ""
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.13. DescribeImportedServicesDetail

Queries the details of the imported services on an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeImportedServicesDetail	The operation that you want to perform. Set the value to DescribeImportedServicesDetail .

Parameter	Type	Required	Example	Description
ServiceMeshId	String	Yes	cb8963379255149cb98c8686f274x****	The ID of the ASM instance.
ASMGatewayName	String	No	ingressgateway	The name of the ASM gateway.
ServiceNamespace	String	No	default	The namespace in which the service resides.

Response parameters

Parameter	Type	Example	Description
RequestId	String	E0496204-7586-5B4C-B364-2361CC0EDxxxx	The ID of the request.
Details	Array of detail		The details of the services.
ServiceName	String	productpage	The name of the service.
Namespace	String	default	The namespace in which the service resides.
Labels	Map		The labels of the service.
	String	app: productpage	The label of the service.
ClusterIds	Array of String	c7894c929677643a5bfe1a732d778****	The IDs of the clusters to which the service belongs.
ServiceType	String	Kuberntes	The type of the service.
Ports	Array of port		The ports declared for the service.
Name	String	http-0	The name of the port.
Protocol	String	tcp	The protocol of the port.
Port	Integer	80	The port number.
TargetPort	Integer	8080	The container port.
NodePort	Integer	12345	The node port.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeImportedServicesDetail
&ServiceMeshId=cb8963379255149cb98c8686f274x****
&ASMGatewayName=ingressgateway
&ServiceNamespace=default
&Common request parameters
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeImportedServicesDetailResponse>
  <RequestId>E0496204-7586-5B4C-B364-2361CC0EDxxxx</RequestId>
  <Details>
    <ServiceName>productpage</ServiceName>
    <Namespace>default</Namespace>
    <Labels>
      <key>app: productpage</key>
    </Labels>
    <ClusterIds>c7894c929677643a5bfela732d778****</ClusterIds>
    <ServiceType>Kuberntes</ServiceType>
    <Ports>
      <Name>http-0</Name>
      <Protocol>tcp</Protocol>
      <Port>80</Port>
      <TargetPort>8080</TargetPort>
      <NodePort>12345</NodePort>
    </Ports>
  </Details>
</DescribeImportedServicesDetailResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "E0496204-7586-5B4C-B364-2361CC0EDxxxx",
  "Details" : {
    "ServiceName" : "productpage",
    "Namespace" : "default",
    "Labels" : {
      "key" : "app: productpage"
    },
    "ClusterIds" : "c7894c929677643a5bfela732d778****",
    "ServiceType" : "Kuberntes",
    "Ports" : {
      "Name" : "http-0",
      "Protocol" : "tcp",
      "Port" : 80,
      "TargetPort" : 8080,
      "NodePort" : 12345
    }
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.14. DescribeASMGatewayImportedServices

Queries imported services on an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeASMGatewayImportedServices	The operation that you want to perform. Set the value to DescribeASMGatewayImportedServices .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
ASMGatewayName	String	No	ingressgateway	The name of the ASM gateway.
ServiceNamespace	String	No	default	The namespace in which the service resides.

Response parameters

Parameter	Type	Example	Description
RequestId	String	11fd0027-c27e-41bb-a565-75583054****	The ID of the request.
ImportedServices	Array of importedService		The imported services.
ServiceName	String	productpage	The name of the service.
ServiceNamespace	String	default	The namespace in which the service resides.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeASMGatewayImportedServices
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&ASMGatewayName=ingressgateway
&ServiceNamespace=default
&Common request parameters
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeASMGatewayImportedServicesResponse>
  <RequestId>E0496204-7586-5B4C-B364-2361CC0Exxxx</RequestId>
  <ImportedServices>
    <ServiceName>productpage</ServiceName>
    <ServiceNamespace>default</ServiceNamespace>
  </ImportedServices>
</DescribeASMGatewayImportedServicesResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "E0496204-7586-5B4C-B364-2361CC0Exxxx",
  "ImportedServices" : [ {
    "ServiceName" : "productpage",
    "ServiceNamespace" : "default"
  } ]
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.15. DescribeIstioGatewayRouteDetail

Queries the detailed information about a routing rule of an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeIstioGatewayRouteDetail	The operation that you want to perform. Set the value to DescribeIstioGatewayRouteDetail .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
IstioGatewayName	String	No	ingressgateway	The name of the ASM gateway.
RouteName	String	No	demo-route	The name of the routing rule.

Response parameters

Parameter	Type	Example	Description
RouteDetail	Object		The detailed information about the routing rule.
RouteName	String	demo-route	The name of the routing rule.
RouteType	String	HTTP	The type of the traffic to be routed. Valid values: <code>HTTP</code> , <code>TLS</code> , and <code>TCP</code> .
MatchRequest	Object		The matching rules for traffic routing.
URI	Object		The matching rule for URIs.
MatchingMode	String	prefix	The matching mode. Valid values: <code>exact</code>: exact match <code>prefix</code>: match by prefix <code>regex</code>: match by regular expression
MatchingContent	String	/ratings/v2/	The content to be matched.
Headers	Array of header		The request headers to be matched.
Name	String	x-request-id	The header key to be matched.
MatchingMode	String	exact	The matching mode for the header value. Valid values: <code>exact</code>: exact match <code>prefix</code>: match by prefix <code>regex</code>: match by regular expression
MatchingContent	String	v1	The header value to be matched.
TLSMatchAttributes	Array of tlsMatchAttribute		The matching rule for TLS traffic.
TLSPort	Integer	443	The TLS port.

Parameter	Type	Example	Description
SNIHosts	Array of String	*.com	The Server Name Indication (SNI) values to be matched. Wildcards can be used as the prefix of an SNI value. For example, a value of <code>*.com</code> matches <code>foo.example.com</code> and <code>example.com</code>.  Note The SNI values must be a subset of the hostnames of the corresponding virtual hosts.
Ports	Array of Integer	443	The ports of the specified hosts to which the traffic is routed.
HTTPAdvancedOptions	Object		The advanced settings for routing HTTP traffic.
HTTPRedirect	Object		The HTTP redirect rule.
Uri	String	/v1/getProductRatings	The value to be used to overwrite the URL path during redirection.
Authority	String	newratings.default.svc.cluster.local	The value to be used to overwrite the value of the Authority or Host header during redirection.
RedirectCode	Integer	301	The response code to be used for indicating URL redirection. Default value: 301.
Delegate	Object		The virtual service that defines traffic routing.
Name	String	reviews	The name of the virtual service.
Namespace	String	default	The namespace to which the virtual service belongs.
Rewrite	Object		The configurations for rewriting virtual service.
Uri	String	/v1/getProductRatings	The value to be used to overwrite the path or prefix of the URL.

Parameter	Type	Example	Description
Authority	String	newratings.default.svc. cluster.local	The value to be used to overwrite the value of the Authority or Host header.
Timeout	String	5s	The timeout period for requests.
Retries	Object		The configurations of retries for failed requests.
Attempts	Integer	3	The maximum number of retries that are allowed for a request.
PerTryTimeout	String	2s	The timeout period for each retry.
RetryOn	String	connect- failure,refused- stream,503	The condition for retries. Example: <code>connect-failure,refused-stream,503</code> .
RetryRemoteLocalities	Object		Specifies whether to allow retries to other localities.
Value	Boolean	false	Specifies whether to allow retries to other localities. Valid values: <code>true</code>: allows retries to other localities. <code>false</code>: does not allow retries to other localities. Default value: <code>false</code> .
Fault	Object		The configurations of fault injection.
Delay	Object		The duration to delay a request.
FixedDelay	String	5s	The fixed duration for request delay.
ExponentialDelay	String	3	The duration for request delay is expressed as 2 raised to the power of x. You must specify the value of x.
Percentage	Object		The percentage of requests to which the delay fault is injected.
Value	Float	0.1	The percentage of requests that are aborted with specified error codes, expressed as a decimal.

Parameter	Type	Example	Description
Abort	Object		The configurations for aborting requests with specified error codes.
HttpStatus	Integer	400	The specified HTTP error code.
Percentage	Object		The percentage of requests that are aborted with the specified error code.
Value	Float	0.1	The percentage of requests that are aborted with the specified error code, expressed as a decimal.
Mirror	Object		The configurations for mirroring HTTP traffic to another destination in addition to forwarding requests to the specified destination.
Host	String	reviews.default.svc.cluster.local	The name of the service defined in the service registry.
Subset	String	v1	The name of the service subset.
MirrorPercentage	Object		The percentage of requests that are mirrored to another destination except for the original destination.
Value	Float	0.2	The percentage of requests that are mirrored to another destination except for the original destination, expressed as a decimal.
RouteDestinations	Array of routeDestinations		The endpoints of service instances for Layer 4 weighted routing.
Destination	Object		The unique endpoint of the service instance to which the specified requests are sent.
Host	String	reviews	The name of the service defined in the service registry.
Subset	String	v1	The name of the service subset.
Port	Object		The ports of the specified hosts from which the traffic is routed.
Number	Integer	443	The port of the specified host to which the traffic is routed.

Parameter	Type	Example	Description
Weight	Integer	80	The traffic weight. Valid values: 1 to 100.
Headers	Object		The request headers to be matched.
Request	Object		The request header to be matched.
Set	Map		The header key to be used to overwrite the original header key.
	String	key	The header key that you specify.
Add	Map		The values to be added to the header key.
Remove	Array of String	key	The key to be deleted.
Response	Object		The processing of the headers of the response that is to be returned.
Set	Map		The header key to be used to overwrite the original header key.
Add	Map		The values to be added to the header key.
Remove	Array of String	key	The key to be deleted.
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.
Priority	Integer	1	The priority of the routing rule. The value of this parameter is an integer. A smaller value indicates a higher priority.
Status	Integer	1	The status of the routing rule. Valid values: 0 : The routing rule is valid. 1 : The routing rule is invalid. 2 : An error occurs during the creation or update of the routing rule.
Description	String	demo route	The description of the routing rule.

Examples

Sample requests

```

http(s)://[Endpoint]?Action=DescribeIstioGatewayRouteDetail
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&IstioGatewayName=ingressgateway
&RouteName=demo-route
&<Common request parameters>

```

Sample success responses

XML **format**

```

HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeIstioGatewayRouteDetailResponse>
  <RouteDetail>
    <RouteName>demo-route</RouteName>
    <RouteType>HTTP</RouteType>
    <MatchRequest>
      <URI>
        <MatchingMode>prefix</MatchingMode>
        <MatchingContent>/ratings/v2/</MatchingContent>
      </URI>
      <Headers>
        <Name>x-request-id</Name>
        <MatchingMode>exact</MatchingMode>
        <MatchingContent>v1</MatchingContent>
      </Headers>
      <TLSMatchAttributes>
        <TLSPort>443</TLSPort>
        <SNIHosts>*.com</SNIHosts>
      </TLSMatchAttributes>
      <Ports>443</Ports>
    </MatchRequest>
    <HTTPAdvancedOptions>
      <HTTPRedirect>
        <Uri>/v1/getProductRatings</Uri>
        <Authority>newratings.default.svc.cluster.local</Authority>
        <RedirectCode>301</RedirectCode>
      </HTTPRedirect>
      <Delegate>
        <Name>reviews</Name>
        <Namespace>default</Namespace>
      </Delegate>
      <Rewrite>
        <Uri>/v1/getProductRatings</Uri>
        <Authority>newratings.default.svc.cluster.local</Authority>
      </Rewrite>
      <Timeout>5s</Timeout>
      <Retries>
        <Attempts>3</Attempts>
        <PerTryTimeout>2s</PerTryTimeout>
        <RetryOn>connect-failure,refused-stream,503</RetryOn>
        <RetryRemoteLocalities>
          <Value>false</Value>
        </RetryRemoteLocalities>
      </Retries>
      <Fault>
        <Delay>
          <FixedDelay>5s</FixedDelay>
          <ExponentialDelay>3</ExponentialDelay>
          <Percentage>

```

```

        <Value>0.1</Value>
      </Percentage>
    </Delay>
    <Abort>
      <HttpStatus>400</HttpStatus>
      <Percentage>
        <Value>0.1</Value>
      </Percentage>
    </Abort>
  </Fault>
  <Mirror>
    <Host>reviews.default.svc.cluster.local</Host>
    <Subset>v1</Subset>
  </Mirror>
  <MirrorPercentage>
    <Value>0.2</Value>
  </MirrorPercentage>
</HTTPAdvancedOptions>
<RouteDestinations>
  <Destination>
    <Host>reviews</Host>
    <Subset>v1</Subset>
    <Port>
      <Number>443</Number>
    </Port>
  </Destination>
  <Weight>80</Weight>
  <Headers>
    <Request>
      <Set>
        <key>key</key>
      </Set>
      <Remove>key</Remove>
    </Request>
    <Response>
      <Remove>key</Remove>
    </Response>
  </Headers>
</RouteDestinations>
</RouteDetail>
<RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
<Priority>1</Priority>
<Status>1</Status>
  <Description>demo route</Description>
</DescribeIstioGatewayRouteDetailResponse>

```

JSON **format**

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RouteDetail" : {
    "RouteName" : "demo-route",
    "RouteType" : "HTTP",
    "MatchRequest" : {
      "URI" : {
        "MatchingMode" : "prefix",
        "MatchingContent" : "/ratings/v2/"
      },
      "Headers" : {

```

```

      "headers" : {
        "Name" : "x-request-id",
        "MatchingMode" : "exact",
        "MatchingContent" : "v1"
      },
      "TLSMatchAttributes" : {
        "TLSPort" : 443,
        "SNIHosts" : "*.com"
      },
      "Ports" : 443
    },
    "HTTPAdvancedOptions" : {
      "HTTPRedirect" : {
        "Uri" : "/v1/getProductRatings",
        "Authority" : "newratings.default.svc.cluster.local",
        "RedirectCode" : 301
      },
      "Delegate" : {
        "Name" : "reviews",
        "Namespace" : "default"
      },
      "Rewrite" : {
        "Uri" : "/v1/getProductRatings",
        "Authority" : "newratings.default.svc.cluster.local"
      },
      "Timeout" : "5s",
      "Retries" : {
        "Attempts" : 3,
        "PerTryTimeout" : "2s",
        "RetryOn" : "connect-failure,refused-stream,503",
        "RetryRemoteLocalities" : {
          "Value" : false
        }
      },
      "Fault" : {
        "Delay" : {
          "FixedDelay" : "5s",
          "ExponentialDelay" : 3,
          "Percentage" : {
            "Value" : 0.1
          }
        },
        "Abort" : {
          "HttpStatus" : 400,
          "Percentage" : {
            "Value" : 0.1
          }
        }
      },
      "Mirror" : {
        "Host" : "reviews.default.svc.cluster.local",
        "Subset" : "v1"
      },
      "MirrorPercentage" : {
        "Value" : 0.2
      }
    },
    "RouteDestinations" : {
      "Destination" : {
        "Host" : "reviews",
        "Subset" : "v1",

```

```
{
  "Port" : {
    "Number" : 443
  },
  "Weight" : 80,
  "Headers" : {
    "Request" : {
      "Set" : {
        "key" : "key"
      },
      "Remove" : "key"
    },
    "Response" : {
      "Remove" : "key"
    }
  }
},
"RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****",
"Priority" : 1,
"Status" : 1,
"Description" : "demo route"
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	ERR500	An internal server error occurred.	The error message returned because a backend service error has occurred.

For a list of error codes, visit the [API Error Center](#).

11.16. DescribeGatewaySecretDetails

Queries the detailed information about a secret of an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeGatewaySecretDetails	The operation that you want to perform. Set the value to DescribeGatewaySecretDetails .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
IstioGatewayName	String	No	ingressgateway	The name of the ASM gateway.

Response parameters

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.
GatewaySecretDetails	Array of gatewaySecretDetail		The detailed information about the secret of the ASM gateway.
IssueTime	String	2022-03-03 07:45	The time when the certificate was issued.
ExpiredTime	String	2023-03-03 07:45	The time when the certificate expires.
GatewayName	String	bookinfo-gateway	The name of the gateway.
State	String	normal	The status of the certificate. Valid values: - normal - abnormal
Message	String	tls.crt not exist	- An error message is returned if the status of the gateway is abnormal. Examples: <code>tls.crt not exist</code>, <code>tls.key not exist</code>, and <code>secret type must be kubernetes.io/tls</code>. - An empty value is returned if the status of the gateway is normal.
SNI	String	demo.com	The Server Name Indication (SNI) value that indicates the hostname of the service.
SecretName	String	demo-secret	The name of the secret.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeGatewaySecretDetails
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&IstioGatewayName=ingressgateway
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeGatewaySecretDetailsResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
  <GatewaySecretDetails>
    <IssueTime>2022-03-03 07:45</IssueTime>
    <ExpiredTime>2023-03-03 07:45</ExpiredTime>
    <GatewayName>bookinfo-gateway</GatewayName>
    <State>normal</State>
    <Message>tls.crt not exist</Message>
    <SNI>demo.com</SNI>
    <SecretName>demo-secret</SecretName>
  </GatewaySecretDetails>
</DescribeGatewaySecretDetailsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****",
  "GatewaySecretDetails" : {
    "IssueTime" : "2022-03-03 07:45",
    "ExpiredTime" : "2023-03-03 07:45",
    "GatewayName" : "bookinfo-gateway",
    "State" : "normal",
    "Message" : "tls.crt not exist",
    "SNI" : "demo.com",
    "SecretName" : "demo-secret"
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.17. DescribelstioGatewayDomains

Queries the domain names that are exposed by an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribelstioGatewayDomains	The operation that you want to perform. Set the value to DescribelstioGatewayDomains .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.

Parameter	Type	Required	Example	Description
IstioGatewayName	String	No	ingressgateway	The name of the ASM gateway.
Namespace	String	No	default	The namespace in which the ASM gateway resides.
Limit	String	No	10	The maximum number of ASM gateways to query.

Response parameters

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.
GatewaySecretDetails	Array of gatewaySecretDetail		The domain names that are exposed by the ASM gateway.
Domains	Array of String	example.com	The domain name.
Protocol	String	HTTPS	The type of the protocol. Valid values: HTTP , HTTPS , GRPC , HTTP2 , MONGO , TCP , and TLS .
CredentialName	String	bookinfo-secret	The name of the secret that contains the Transport Layer Security (TLS) certificate and certificate authority (CA) certificate.
Detail	String	null	The details of the domain name in the JSON format.
PortName	String	https-demo	The name of the port.
Namespace	String	default	The namespace in which the ASM gateway resides.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeIstioGatewayDomains
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&IstioGatewayName=ingressgateway
&Namespace=default
&Limit=10
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeIstioGatewayDomainsResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
  <GatewaySecretDetails>
    <Domains>example.com</Domains>
    <Protocol>HTTPS</Protocol>
    <CredentialName>bookinfo-secret</CredentialName>
    <Detail>{  "servers": [    {      "port": {        "number": 27018,        "name": "mongo",
",      "protocol": "MONGO"    },      "hosts": [        "*"      ]    ] }</Detail>
    <PortName>https-demo</PortName>
    <Namespace>default</Namespace>
  </GatewaySecretDetails>
</DescribeIstioGatewayDomainsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****",
  "GatewaySecretDetails" : {
    "Domains" : "example.com",
    "Protocol" : "HTTPS",
    "CredentialName" : "bookinfo-secret",
    "Detail" : "{  \"servers\": [    {      \"port\": {        \"number\": 27018,        \"name\": \"mongo\",
: \"mongo\",      \"protocol\": \"MONGO\"    },      \"hosts\": [        \"*\"      ]    ] }",
    "PortName" : "https-demo",
    "Namespace" : "default"
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.18. DescribeIstioGatewayRoutes

Queries the routing rules for an Alibaba Cloud Service Mesh (ASM) gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeIstioGatewayRoutes	The operation that you want to perform. Set the value to DescribeIstioGatewayRoutes .

Parameter	Type	Required	Example	Description
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.
IstioGatewayName	String	No	ingressgateway	The name of the ASM gateway.

Response parameters

Parameter	Type	Example	Description
ManagementRoutes	Array of managementRoute		The routing rules.
ASMGatewayName	String	ingressgateway	The name of the ASM gateway.
RouteName	String	http-route	The name of the routing rule.
RoutePath	String	/reviews/v1	The path that is used to match request URLs.
Status	Integer	1	The status of the routing rule. Valid values: 0 : The routing rule is valid. 1 : The routing rule is invalid. 2 : An error occurs during the creation or update of the routing rule.
Priority	Integer	1	The priority of the routing rule. The value of this parameter is an integer. A smaller value indicates a higher priority.
Description	String	demo route	The description of the routing rule.
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeIstioGatewayRoutes
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&IstioGatewayName=ingressgateway
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeIstioGatewayRoutesResponse>
  <ManagementRoutes>
    <ASMGatewayName>ingressgateway</ASMGatewayName>
    <RouteName>http-route</RouteName>
    <RoutePath>/reviews/v1</RoutePath>
    <Status>1</Status>
    <Priority>1</Priority>
    <Description>demo route</Description>
  </ManagementRoutes>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
</DescribeIstioGatewayRoutesResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "ManagementRoutes" : {
    "ASMGatewayName" : "ingressgateway",
    "RouteName" : "http-route",
    "RoutePath" : "/reviews/v1",
    "Status" : 1,
    "Priority" : 1,
    "Description" : "demo route"
  },
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****"
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	ERR500	An internal server error occurred.	The error message returned because a backend service error has occurred.

For a list of error codes, visit the [API Error Center](#).

12.Observability

12.1. DescribeClusterGrafana

Queries the information of Grafana dashboards of a cluster in an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer automatically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
K8sClusterId	String	Yes	ce3c25e247da24f3a ab9b7edfae83****	The ID of the cluster on the data plane.
ServiceMeshId	String	Yes	cb8963379255149c b98c8686f274x****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
Dashboards	Array of Dashboard		The information of Grafana dashboards.
Title	String	test	The title of the Grafana dashboard.
Url	String	test.com	The endpoint of the Grafana dashboard.
RequestId	String	BD65C0AD-D3C6-48D3- 8D93-38D2015C****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DescribeClusterGrafana
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
<Dashboards>
  <Title>test</Title>
  <Url>test.com</Url>
</Dashboards>
```

JSON format

```
{
  "RequestId": "BD65C0AD-D3C6-48D3-8D93-38D2015C****",
  "Dashboards": {
    "Title": "test",
    "Url": "test.com"
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

12.2. DescribeClusterPrometheus

Queries the public endpoint of the Prometheus service that is used to monitor a cluster in an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
ServiceMeshId	String	No	cb8963379255149c b98c8686f274x****	The ID of the ASM instance.
K8sClusterId	String	No	ce3c25e247da24f3a ab9b7edfae83****	The ID of the cluster on the data plane.
K8sClusterRegionId	String	No	cn-hangzhou	The ID of the region where the cluster on the data plane resides.

Response parameters

Parameter	Type	Example	Description
Prometheus	String	p.com	The public endpoint of the Prometheus service that is used to monitor a cluster in the ASM instance.
RequestId	String	BD65C0AD-D3C6-48D3- 8D93-38D2015C****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DescribeClusterPrometheus
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
<Prometheus>p.com</Prometheus>
```

JSON format

```
{
  "RequestId": "BD65C0AD-D3C6-48D3-8D93-38D2015C****",
  "Prometheus": "p.com"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

12.3. DescribeServiceMeshLogs

Queries the logs of an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeServiceMeshLogs	The operation that you want to perform. Set the value to DescribeServiceMeshLogs .
ServiceMeshId	String	Yes	ca04bc38979214bf2882be79d39b4****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.
Logs	Array of Log		The details of the logs.
CreationTime	String	2021-11-19T15:21:53+08:00	The point in time when the logs were generated.
ServiceMeshId	String	ca04bc38979214bf2882be79d39b4****	The ID of the ASM instance.

Parameter	Type	Example	Description
Log	String	[RequestID: 31d3a0f0-07ed-4f6e-9004-1804498c****, UID-110982038403****] c096d641835af4658827a4c66c234**** Start to add cluster c186a6d9641a24098b5499d4d8313****	The content of the logs.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeServiceMeshLogs
&ServiceMeshId=ca04bc38979214bf2882be79d39b4****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeServiceMeshLogsResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
  <Logs>
    <CreationTime>2021-11-19T15:21:53+08:00</CreationTime>
    <ServiceMeshId>ca04bc38979214bf2882be79d39b4****</ServiceMeshId>
    <Log>[RequestID: 31d3a0f0-07ed-4f6e-9004-1804498c****, UID-110982038403****] c096d641835af4658827a4c66c234**** | Start to add cluster c186a6d9641a24098b5499d4d8313****</Log>
  </Logs>
</DescribeServiceMeshLogsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****",
  "Logs" : {
    "CreationTime" : "2021-11-19T15:21:53+08:00",
    "ServiceMeshId" : "ca04bc38979214bf2882be79d39b4****",
    "Log" : "[RequestID: 31d3a0f0-07ed-4f6e-9004-1804498c****, UID-110982038403****] c096d641835af4658827a4c66c234**** | Start to add cluster c186a6d9641a24098b5499d4d8313****"
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

12.4. DescribeGuestClusterAccessLogDashboards

Queries the access log reports of a cluster on the data plane.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	No	DescribeGuestClusterAccessLogDashboards	The operation that you want to perform. Set the value to DescribeGuestClusterAccessLogDashboards.
K8sClusterId	String	Yes	ce3c25e247da24f3aab9b7edfae83****	The ID of the cluster on the data plane.

Response parameters

Parameter	Type	Example	Description
Dashboards	Array		The access log reports of a cluster on the data plane.
Title	String	test	The title of the report.
Url	String	test.com	The URL of the report.
K8sClusterId	String	ce3c25e247da24f3aab9b7edfae83****	The ID of the cluster on the data plane.
RequestId	String	BD65C0AD-D3C6-48D3-8D93-38D2015C****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=DescribeGuestClusterAccessLogDashboards
&K8sClusterId=ce3c25e247da24f3aab9b7edfae83****
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>BD65C0AD-D3C6-48D3-8D93-38D2015C****</RequestId>
<Dashboards>
  <Title>test</Title>
  <Url>test.com</Url>
</Dashboards>
<K8sClusterId>ce3c25e247da24f3aab9b7edfae83****</K8sClusterId>
```

JSON **format**

```
{
  "RequestId": "BD65C0AD-D3C6-48D3-8D93-38D2015C****",
  "Dashboards": {
    "Title": "test",
    "Url": "test.com"
  },
  "K8sClusterId": "ce3c25e247da24f3aab9b7edfae83****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

13.Update

13.1. UpgradeMeshVersion

Updates the version of an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpgradeMeshVersion	The operation that you want to perform. Set the value to UpgradeMeshVersion .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	11fd0027-c27e-41bb-a565-75583054****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpgradeMeshVersion
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpgradeMeshVersionResponse>
  <RequestId>17056026-31A7-1473-B6DA-XXXXXXXXXXXX</RequestId>
</UpgradeMeshVersionResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "11fd0027-c27e-41bb-a565-75583054****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

13.2. UpgradeMeshEditionPartially

Upgrades an Alibaba Cloud Service Mesh (ASM) instance to Commercial Edition (Professional Edition).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpgradeMeshEditionPartially	The operation that you want to perform. Set the value to UpgradeMeshEditionPartially .
ServiceMeshId	String	Yes	ca04bc38979214bf2882be79d39b4****	The ID of the ASM instance.
SwitchToPro	Boolean	No	true	Specifies whether to upgrade the ASM instance to Commercial Edition (Professional Edition). Valid values: <code>true</code> : upgrades the ASM instance to Commercial Edition (Professional Edition). <code>false</code> : does not upgrade the ASM instance to Commercial Edition (Professional Edition).
ASMGatewayContinue	Boolean	No	true	Specifies whether to upgrade the ingress gateways for the ASM instance. Valid values: <code>true</code> : upgrades the ingress gateways. <code>false</code> : does not upgrade the ingress gateways.
UpgradeGatewayRecords	String	No	ingressgateway1,ingressgateway2	Specifies the ingress gateways to be upgraded. Separate multiple ingress gateways with commas (,).

Response parameters

Parameter	Type	Example	Description
RequestId	String	31d3a0f0-07ed-4f6e-9004-1804498c****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=UpgradeMeshEditionPartially
&ServiceMeshId=ca04bc38979214bf2882be79d39b4****
&SwitchToPro=true
&ASMGatewayContinue=true
&UpgradeGatewayRecords=ingressgateway1,ingressgateway2
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpgradeMeshEditionPartiallyResponse>
  <RequestId>31d3a0f0-07ed-4f6e-9004-1804498c****</RequestId>
</UpgradeMeshEditionPartiallyResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "31d3a0f0-07ed-4f6e-9004-1804498c****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

13.3. DescribeUpgradeVersion

Queries the versions of components that can be updated in an ASM instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeUpgradeVersion	The operation that you want to perform. Set the value to DescribeUpgradeVersion .
ServiceMeshId	String	Yes	c08ba3fd1e6484b0f8cc1ad8fe10d****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	11fd0027-c27e-41bb-a565-75583054****	The ID of the request.
Version	Object		The version information.
KubernetesVersion	String	1.20	The Kubernetes version.
IstioOperatorVersion	String	v1.10.5.34-g7689a219-aliyun	The version of the ASM instance.
IstioVersion	String	1.10.5.34	The Istio version.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeUpgradeVersion
&ServiceMeshId=c08ba3fd1e6484b0f8cc1ad8fe10d****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeUpgradeVersionResponse>
  <RequestId>11fd0027-c27e-41bb-a565-75583054****</RequestId>
  <Version>
    <KubernetesVersion>1.20</KubernetesVersion>
    <IstioOperatorVersion>v1.10.5.34-g7689a219-aliyun</IstioOperatorVersion>
    <IstioVersion>1.10.5.34</IstioVersion>
  </Version>
</DescribeUpgradeVersionResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "11fd0027-c27e-41bb-a565-75583054****",
  "Version" : {
    "KubernetesVersion" : 1.2,
    "IstioOperatorVersion" : "v1.10.5.34-g7689a219-aliyun",
    "IstioVersion" : "1.10.5.34"
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

13.4. DescribeServiceMeshUpgradeStatus

Queries the upgrade details of an Alibaba Cloud Service Mesh (ASM) instance and its ingress gateways.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeServiceMeshUpgradeStatus	The operation that you want to perform. Set the value to DescribeServiceMeshUpgradeStatus .
ServiceMeshId	String	Yes	11fd0027-c27e-41bb-a565-75583054****	The ID of the ASM instance.
GuestClusterIds	String	No	caeac85a793c94afb bb0a4bb20320****	The IDs of the clusters on the data plane of the ASM instance. Separate multiple clusters with commas (,).
AllIstioGatewayFullNames	String	No	istio- system:ingressgateway1,istio- system:ingressgateway2	The fully qualified names of ingress gateways in the ASM instance. Separate multiple names with commas (,).

Response parameters

Parameter	Type	Example	Description
RequestId	String	11fd0027-c27e-41bb-a565-75583054****	The ID of the request.
UpgradeDetail	Object		The upgrade results.
FinishedGatewaysNum	Long	1	The number of ingress gateways that are upgraded.
MeshStatus	String	running	The status of the ASM instance. Valid values: - running: The instance is running. - upgrading: The instance is being upgraded. - upgrading_failed: The upgrade of the instance fails.
TotalGatewaysNum	Long	2	The total number of ingress gateways in the ASM instance.

Parameter	Type	Example	Description
GatewayStatusRecord	Map		The information about the status of the ingress gateways.
	Object		The status of the ingress gateway.
Status	String	upgrading	The status of the ingress gateway upgrade. Valid values: <code>upgrading</code> : The ingress gateway is being upgraded. <code>pending</code> : The ingress gateway waits to be upgraded. <code>finished</code> : The ingress gateway upgrade is complete. <code>notStart</code> : The ingress gateway upgrade does not start. <code>failed</code> : The ingress gateway upgrade fails. <code>unknown</code> : The upgrade status of the ingress gateway is unknown.
Message	String	success	Indicates whether the operation to upgrade the ingress gateway is successful.
Version	String	1.9.7	The version of the ingress gateway.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=DescribeServiceMeshUpgradeStatus
&ServiceMeshId=11fd0027-c27e-41bb-a565-75583054****
&GuestClusterIds=caeac85a793c94afb0a4bb20320****
&AllIstioGatewayFullNames=istio-system:ingressgateway1,istio-system:ingressgateway2
&<Common request parameters>
```

Sample success responses

`XML` format


```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeServiceMeshUpgradeStatusResponse>
  <RequestId>11fd0027-c27e-41bb-a565-75583054****</RequestId>
  <UpgradeDetail>
    <FinishedGatewaysNum>1</FinishedGatewaysNum>
    <MeshStatus>running</MeshStatus>
    <TotalGatewaysNum>2</TotalGatewaysNum>
    <GatewayStatusRecord>
      <key>
        <Status>upgrading</Status>
        <Message>success</Message>
        <Version>1.9.7</Version>
      </key>
    </GatewayStatusRecord>
  </UpgradeDetail>
</DescribeServiceMeshUpgradeStatusResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "11fd0027-c27e-41bb-a565-75583054****",
  "UpgradeDetail" : {
    "FinishedGatewaysNum" : 1,
    "MeshStatus" : "running",
    "TotalGatewaysNum" : 2,
    "GatewayStatusRecord" : {
      "key" : {
        "Status" : "upgrading",
        "Message" : "success",
        "Version" : "1.9.7"
      }
    }
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
503	ERR404	Not found	The error message returned because the requested resource does not exist.

For a list of error codes, visit the [API Error Center](#).

14.Virtual machine

14.1. AddVMIntoServiceMesh

Adds a virtual machine (VM) to an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
ServiceMeshId	String	Yes	ccb37ff104caf419bf48fb38e6f3****	The ID of the ASM instance.
EcsId	String	Yes	i-2ze90ts4e7dj3650** **	The ID of the VM.
Action	String	Yes	AddVMIntoServiceMesh	The operation that you want to perform. Set the value to AddVMIntoServiceMesh .

Response parameters

Parameter	Type	Example	Description
RequestId	String	4b2c0fe0-6705-4614-8521-6b9d289163c8	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?ServiceMeshId=ccb37ff104caf419bf48fb38e6f3****
&EcsId=i-2ze90ts4e7dj3650****
&Action=AddVMIntoServiceMesh
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<AddVMIntoServiceMeshResponse>
  <RequestId>4b2c0fe0-6705-4614-8521-6b9d289163c8</RequestId>
</AddVMIntoServiceMeshResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "4b2c0fe0-6705-4614-8521-6b9d289163c8"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

14.2. RemoveVMFromServiceMesh

Removes a virtual machine (VM) from an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
ServiceMeshId	String	Yes	ccb37ff104caf419fbf48fb38e6f3****	The ID of the ASM instance.
Action	String	Yes	RemoveVMFromServiceMesh	The operation that you want to perform. Set the value to RemoveVMFromServiceMesh .
EcsId	String	Yes	i-2ze90ts4edj3650*** *	The ID of the VM.

Response parameters

Parameter	Type	Example	Description
RequestId	String	4b2c0fe0-6705-4614-8521-6b9d289163c8	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?ServiceMeshId=ccb37ff104caf419fbf48fb38e6f3****
&Action=RemoveVMFromServiceMesh
&EcsId=i-2ze90ts4edj3650****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<RemoveVMFromServiceMeshResponse>
  <RequestId>4b2c0fe0-6705-4614-8521-6b9d289163c8</RequestId>
</RemoveVMFromServiceMeshResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "4b2c0fe0-6705-4614-8521-6b9d289163c8"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

14.3. GetVmMeta

Queries the metadata that is required to add a non-containerized application to an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer automatically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
ServiceMeshId	String	Yes	ce51a7de4a5144db88a864ed91****	The ID of the ASM instance.
TrustDomain	String	No	cluster.local	The trusted domain. Default value: cluster.local. This parameter is valid only after you set the Namespace and the ServiceAccount parameters.
Namespace	String	No	hello	The namespace. This parameter is valid only after you set the Namespace and the ServiceAccount parameters.
ServiceAccount	String	No	http-sa	The service account. This parameter is valid only after you set the Namespace and the ServiceAccount parameters.

Response parameters

Parameter	Type	Example	Description
RequestId	String	9522f7c9-63a1-4603-b850-37d12a****	The ID of the request.

Parameter	Type	Example	Description
VmMetaInfo	Struct		The metadata that is required to add a non-containerized application to the ASM instance.
CertChainContent	String		The content of the CertChain file.
CertChainPath	String	/.../cert-chain.pem	The path of the CertChain file.
EnvoyEnvContent	String		The content of the EnvoyEnv file.
EnvoyEnvPath	String	/.../cluster.env	The path of the EnvoyEnv file.
HostsContent	String		The content of the hosts file.
HostsPath	String	/.../hosts	The path of the hosts file.
KeyContent	String		The content of the key file.
KeyPath	String	/.../key.pem	The path of the key file.
RootCertContent	String		The content of the RootCert file.
RootCertPath	String	/.../root-cert.pem	The path of the RootCert file.
TokenContent	String		The content of the Token file.
TokenPath	String	/.../token	The path of the Token file.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=GetVmMeta
&Namespace=hello
&ServiceAccount=http-sa
&ServiceMeshId=ce51a7de4a5144db88a864ed91****
&<Common request parameters>
```

Sample success responses

XML format

```
<VmMetaInfo>
  <TokenPath>/.../token</TokenPath>
  <EnvoyEnvContent>.... </EnvoyEnvContent>
  <CertChainContent>.... </CertChainContent>
  <CertChainPath>/.../cert-chain.pem</CertChainPath>
  <HostsPath>/.../hosts</HostsPath>
  <RootCertContent>.... </RootCertContent>
  <RootCertPath>/.../root-cert.pem</RootCertPath>
  <TokenContent>.... </TokenContent>
  <HostsContent>.... </HostsContent>
  <EnvoyEnvPath>/.../cluster.env</EnvoyEnvPath>
  <KeyContent>.... </KeyContent>
  <KeyPath>/.../key.pem</KeyPath>
</VmMetaInfo>
<RequestId>9522f7c9-63a1-4603-b850-37d12a****</RequestId>
```

JSON format

```
{ "VmMetaInfo": { "TokenPath": "/.../token", "EnvoyEnvContent": "....", "CertChainContent": "....", "CertChainPath": "/.../cert-chain.pem", "HostsPath": "/.../hosts", "RootCertContent": "....", "RootCertPath": "/.../root-cert.pem", "TokenContent": "....", "HostsContent": "....", "EnvoyEnvPath": "/.../cluster.env", "KeyContent": "....", "KeyPath": "/.../key.pem" }, "RequestId": "9522f7c9-63a1-4603-b850-37d12a****" }
```

Error codes

HttpCode	Error code	Error message	Description
404	ServiceMesh.NotFound	The Service Mesh cluster does not exist.	The error message returned because the ASM instance does not exist.

For a list of error codes, visit the [API Error Center](#).

14.4. GetVmAppMeshInfo

Queries the information about VMs that are added to an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
ServiceMeshId	String	Yes	ce51a7de4a5144db88a864****	The ID of the ASM instance.

Response parameters

Parameter	Type	Example	Description
Data	String	...	The returned information.

Parameter	Type	Example	Description
RequestId	String	9522f7c9-63a1-4603-b850-37d12a****	The ID of the request.

Examples

Sample requests

```
http(s)://[Endpoint]/?Action=GetVmAppMeshInfo
&ServiceMeshId=ce51a7de4a5144db88a864****
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>9522f7c9-63a1-4603-b850-37d12a****</RequestId>
<Data>...</Data>
```

JSON format

```
{
  "RequestId": "9522f7c9-63a1-4603-b850-37d12a****",
  "Data": "..."
```

Error codes

HttpCode	Error code	Error message	Description
404	ServiceMesh.NotFound	The Service Mesh cluster does not exist.	The error message returned because the ASM instance does not exist.

For a list of error codes, visit the [API Error Center](#).

14.5. DescribeServiceMeshVMs

Queries the Elastic Compute Service (ECS) instances that reside in the same virtual private cloud (VPC) as an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
ServiceMeshId	String	Yes	ccb37ff104caf419bf48fb38e6f****	The ID of the ASM instance.

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeServiceMeshVMs	The operation that you want to perform. Set the value to DescribeServiceMeshVMs .

Response parameters

Parameter	Type	Example	Description
RequestId	String	4b2c0fe0-6705-4614-8521-6b9d289163c8	The ID of the request.
VMs	Array of instances		The ECS instances that reside in the same VPC as the ASM instance.
Status	String	Running	The state of the ECS instance.
InstanceId	String	i-2ze0kub9scdguom****	The ID of the ECS instance.
HasTag	Boolean	false	Indicates whether the ECS instance has labels.
IpAddress	String	192.168.2.241	The IP address of the ECS instance.
HostName	String	iZ2ze45cgxkx4q12eh*** *	The hostname of the ECS instance.
SecurityGroupIds	String	sg-2zea9y08amco9osl****	The security group to which the ECS instance belongs.
ServiceMeshId	String	ccb37ff104caf419fbf48fb38e6f3****	The ID of the ASM instance.
Region	String	cn-beijing	The ID of the region.

Examples

Sample requests

```
http(s)://[Endpoint]/?ServiceMeshId=ccb37ff104caf419fbf48fb38e6f3****
&Action=DescribeServiceMeshVMs
&<Common request parameters>
```

Sample success responses

XML format


```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeServiceMeshVMsResponse>
  <RequestId>4b2c0fe0-6705-4614-8521-6b9d289163c8</RequestId>
  <VMs>
    <Status>Running</Status>
    <InstanceId>i-2ze0kub9scdguom****</InstanceId>
    <HasTag>>false</HasTag>
    <IpAddress>192.168.2.241</IpAddress>
    <HostName>iZ2ze45cgxxkx4ql2eh****</HostName>
    <SecurityGroupIds>sg-2zeagy08amco9osl****</SecurityGroupIds>
    <ServiceMeshId>ccb37ff104caf419fbf48fb38e6f3****</ServiceMeshId>
    <Region>cn-beijing</Region>
  </VMs>
</DescribeServiceMeshVMsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "4b2c0fe0-6705-4614-8521-6b9d289163c8",
  "VMs" : {
    "Status" : "Running",
    "InstanceId" : "i-2ze0kub9scdguom****",
    "HasTag" : false,
    "IpAddress" : "192.168.2.241",
    "HostName" : "iZ2ze45cgxxkx4ql2eh****",
    "SecurityGroupIds" : "sg-2zeagy08amco9osl****",
    "ServiceMeshId" : "ccb37ff104caf419fbf48fb38e6f3****",
    "Region" : "cn-beijing"
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

14.6. DescribeVMsInServiceMesh

Queries the virtual machines (VMs) that are added to an Alibaba Cloud Service Mesh (ASM) instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
ServiceMeshId	String	Yes	ccb37ff104caf419fbf48fb38e6f3****	The ID of the ASM instance.

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeVMsInServiceMesh	The operation that you want to perform. Set the value to DescribeVMsInServiceMesh .

Response parameters

Parameter	Type	Example	Description
RequestId	String	4b2c0fe0-6705-4614-8521-6b9d289163c8	The ID of the request.
VMs	Array of VMs		The VMs that are added to the ASM instance.
InstanceId	String	i-2ze45cgxkx4q12e****	The ID of the VM.
HasTag	Boolean	true	Indicates whether the VM has labels.
IpAddress	String	10.0.*.*	The IP address of the VM.
HostName	String	iZ2ze45cgxkx4q12eh9l***	The host name of the VM.
Status	String	Running	The status of the VM.
SecurityGroupIds	String	sg-2zeaqy08amco9osl****	The security group to which the VM belongs.
Region	String	cn-beijing	The region ID.

Examples

Sample requests

```
http(s)://[Endpoint]/?ServiceMeshId=ccb37ff104caf419fbf48fb38e6f3****
&Action=DescribeVMsInServiceMesh
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeVMsInServiceMeshResponse>
  <RequestId>4b2c0fe0-6705-4614-8521-6b9d289163c8</RequestId>
  <VMs>
    <InstanceId>i-2ze45cgxkx4q12e****</InstanceId>
    <HasTag>true</HasTag>
    <IpAddress>10.0.*,***</IpAddress>
    <HostName>iZ2ze45cgxkx4q12eh91****</HostName>
    <Status>Running</Status>
    <SecurityGroupIds>sg-2zeaqy08amco9osl****</SecurityGroupIds>
    <Region>cn-beijing</Region>
  </VMs>
</DescribeVMsInServiceMeshResponse>
```

JSON **format**

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "4b2c0fe0-6705-4614-8521-6b9d289163c8",
  "VMs" : {
    "InstanceId" : "i-2ze45cgxkx4q12e****",
    "HasTag" : true,
    "IpAddress" : "10.0.*,***",
    "HostName" : "iZ2ze45cgxkx4q12eh91****",
    "Status" : "Running",
    "SecurityGroupIds" : "sg-2zeaqy08amco9osl****",
    "Region" : "cn-beijing"
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).